

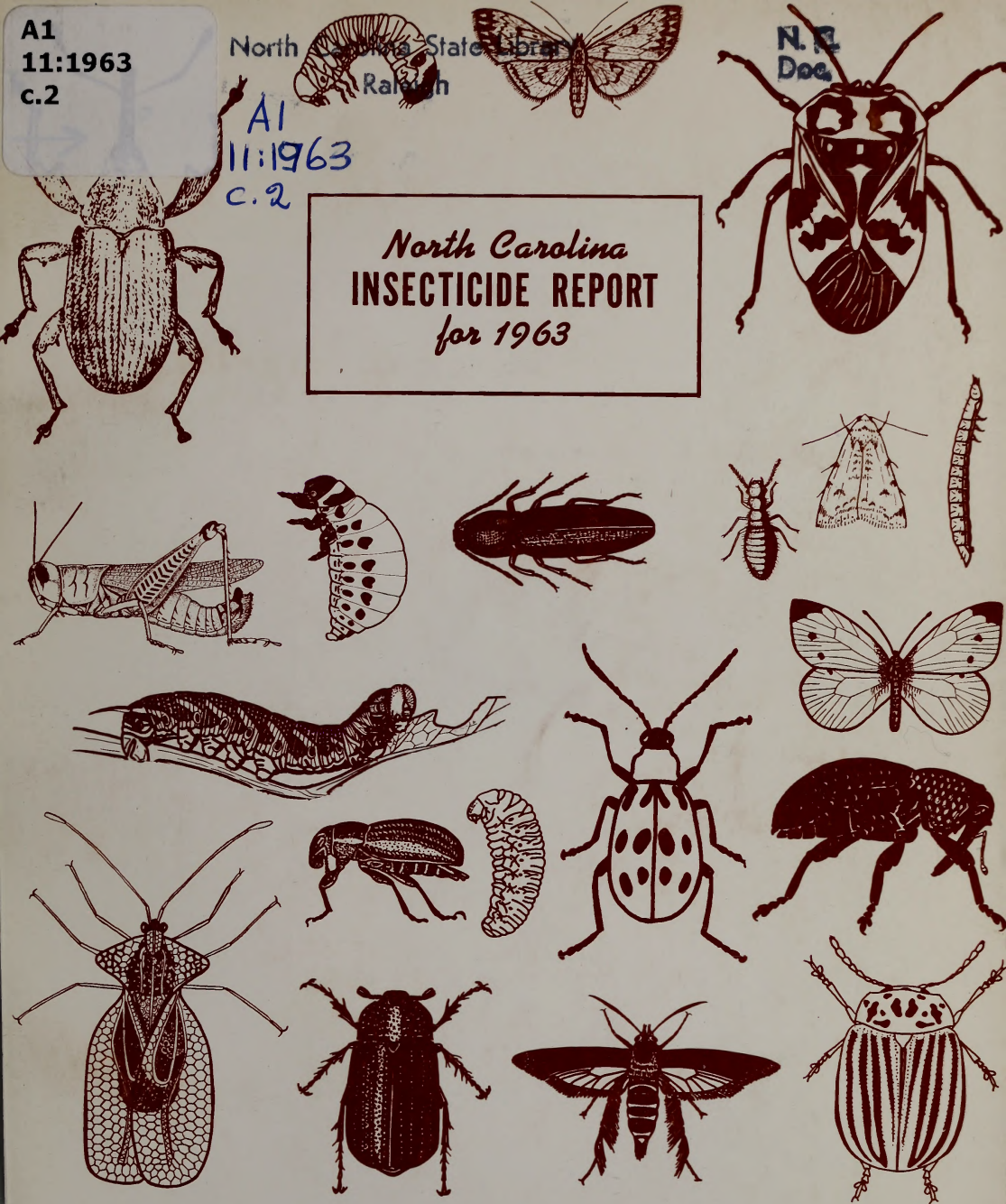
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North Carolina
INSECTICIDE REPORT
for 1963



THE BULLETIN


of the

North Carolina Department of Agriculture

L. Y. BALLENTINE, Commissioner

Number 176

June, 1964



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North Carolina

INSECTICIDE REPORT

for

January 1 - December 31, 1963



THE BULLETIN

of the

North Carolina Department of Agriculture

Raleigh, N. C.

L. Y. BALLENTINE, *Commissioner*

JOHN L. REITZEL, *Assistant Commissioner*

E. W. CONSTABLE, *State Chemist*

Number 176

June, 1964

INSECTICIDE REPORT

January 1, December 31, 1963

ABOUT OUR COVER PICTURE

The myriad of insects just waiting to take over our crops, shrubbery and lawns is shown on the cover only in small part. Seemingly as numerous are the insecticides needed to control and halt these pests. In North America there are over 3,000 economically important species of insects. Fortunately, one insecticide may control several species.

These lively insects keep developers of insecticides on their toes, however. New insecticides must be developed for those insects that develop immunity to existing chemical control measures. Too, the industry is continually striving to perfect insecticides to improve effectiveness and reduce residues which may be harmful.

THE BULLETIN
of the
North Carolina Department of Agriculture
Raleigh, N. C.

L. V. BAILEY, Editor
JOHN L. TRIMBLE, Assistant Editor
R. W. CORLISS, State Entomologist

June, 1964

Number 176

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Inspection and Analysis of Economic Poisons

Economic poisons or pesticides cover a large number of materials and mixtures intended for destroying, controlling or repelling pests such as insects, weeds and other noxious plants, predatory animals and birds, soil-infesting pests such as nematodes, algae, snails and bacteria. Other examples are disinfectants, antiseptics and fungicides for use other than on living man or other animals, defoliants, various repellents, fly paper and other adhesive products whose action goes beyond simple mechanics, moth proofers, wood preservatives other than common paints, mildew controls, and seed fumigants and disinfectants.

An adequate and reliable supply of these products is as indispensable as is fertilizer in the production of food and fiber crops. Weed killers and defoliants are important adjuncts. The preservation of many products in storage and the control of domestic and industrial pests which affect both the health and welfare of human beings and animals are likewise dependent on such materials.

While encouraging the development and distribution of reliable products to serve these needs, and with due regard for public health and welfare, it is the purpose of the economic poisons law (the North Carolina Insecticide, Fungicide and Rodenticide Act of 1947, G. S. Article 4A, Chapter 106) to protect the public from adulterated, misbranded, worthless and dangerous products, and legitimate manufacturers from unscrupulous competition. Among other requirements, the law authorizes inspections, analyses of official samples taken from products offered for sale within the state and publication of results. With other pertinent information there is given in this issue of The Bulletin a list of registrants, a summary of registrations and detailed results of analyses of official samples taken throughout the state by inspectors of the department for the calendar year 1963. Included also are the North Carolina Aerial Crop-Dusting Law, regulations and registrants under that law, for 1963.

Before any brand of economic poison can be legally offered for sale in the state, it is required that it be registered with the Department of Agriculture. Application forms, furnished by the department, must be submitted in triplicate with copy of all labeling and claims. Applications must be accompanied by an inspection fee of ten dollars per brand and grade, payable to the North Carolina Department of Agriculture. All registrations expire December 31 of each year and are subject to re-registration with annual payment of inspection fees. Requirements are given in fuller detail in the "Brief of North Carolina Insecticide Law" on pages 7 and 8. Copies of the law and related regulations are available on request.

A statewide inspection service is maintained for the collection of official samples of economic poisons from farms, other users and dealers. Individual requests for inspections are followed up promptly.

Samples are sent to the department's laboratories for analysis and as soon as this work is completed, individual reports are forwarded to manufacturers, dealers and users. As a further means of reporting, an issue of The Bulletin covering a year's work as exemplified herewith, is published annually.

The economic poisons law gives control officials certain discretionary authority in dealing with borderline cases. The earnest cooperation of a great majority of manufacturers and dealers has been a valuable asset in the administration of the law.

Cooperative work by staff members of the North Carolina Experiment Station and Extension Service has been mutually beneficial and most helpful. Credit also is due members of the laboratory section for the highly satisfactory manner in which the analytical work has been carried out: H. A. Miller, Assistant State Chemist; Henry W. Barnes, Jr., William Buffalo, Jerry Dismukes, Thomas Vick, Chemists; Mrs. Frances Liles, Secretary; George A. Brown, Jr., T. E. Carriker, Jr., J. W. Davis, H. C. McPhail, Thomas M. Parker, William Morgan, Laboratory Helper.

Brief of North Carolina Insecticide Law

Commissioner of Agriculture, Raleigh, North Carolina.

Administrative
Officer

1. The name and address of the guarantor.
2. The brand name or trademark.
3. The net weight or measure.
4. A guaranteed analysis statement showing:
 - a. The name and percentage of each active ingredient.
 - b. The total percentage of inert ingredients.
5. Instructions for use, adequate for the protection of public.
6. A warning or caution statement adequate to prevent injury.
7. For economic poisons highly toxic to man:
 - a. The skull and crossbones.
 - b. The word "Poison" in red, on distinctly contrasting background.
 - c. An antidote for the poison.
8. When arsenic is present—the percentages of the total and of the water-soluble arsenic separately and as elemental (metallic) arsenic.

Information
Required to
Appear on
Package
Labels

Other General Requirements:

1. Strength and quality must not fall below that professed or claimed.
2. No false or misleading statement, design or other representation is permissible.
3. Imitations are not permitted.
4. Labeling may not refer to registration.
5. Labeling shall be legible and understandable.
6. Claims or directions for use may not deviate in substance, or composition vary, from representations made on registering.
7. Economic poisons must be sold in the registrant's or manufacturer's original package. If repackaged for sale, it loses its original identity and qualifies as a new product. As such it is subject to registration and all other provisions of the law. Responsibility rests on the repackaging agent.

General
Requirements

8. Economic poisons in powdered form of white or light color require distinct further coloring for safety.

Registration	Each brand and grade of economic poisons must be registered prior to sale (application forms are furnished by the department), subject to renewal annually, January 1st. Duplication of registration by secondary sellers is not required.
Inspection Tax	Application must be accompanied by full information (see package labeling above), including specimen of labeling, all claims, and, if called for, certain additional data when necessary in qualifying the product.
Method of Paying	An annual inspection tax of \$10.00 for each brand and each grade is required.
Refusal or Cancellation of Registration	Inspection tax must accompany application for registration, payable to the North Carolina Department of Agriculture.
Stop-Sale Orders	Registration is subject to refusal or cancellation for cause and upon hearing.
Short Weight	Goods not measuring up to requirements are subject to Stop-Sale Orders.
	Short weight, in addition to above, is subject to penalty.

Exempt from Penalties of Law Are:

Exemptions	<ol style="list-style-type: none"> 1. Carriers engaged in legal transporting. 2. Public official while performing official duties. 3. Manufacturers and shippers of products properly identified for experimental use only. 4. Persons shown to be proceeding in good faith on guarantees and representations given by others. The original guarantor then is liable.
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NOTE: Copies of the economic poisons law may be obtained upon request to the Inspection Division, North Carolina Department of Agriculture, Raleigh, North Carolina.

Economic Poisons Registrants, 1963

ACELINE PRODUCTS CORP.
P. O. Box 236
Rochester 5, New York

ACME FERTILIZER CO.
P. O. Box 98
Acme, North Carolina

ACME QUALITY PAINTS, INC.
8250 St. Aubin Avenue
Detroit 11, Michigan

AERO-MASTER, INC.
325 W. Pacific Avenue
St. Louis 19, Missouri

AGRICULTURAL SPECIALTIES
Starbar Div.
(Now: Thuron Industries, Inc.)
12200 Denton Drive
Dallas 34, Texas

AIRKEM, INC.
241 East 44th Street
New York 17, New York

AIROSOL COMPANY, INC.
525 N. 11th Street
Neodesha, Kansas

ALCO CHEMICAL CO.
19220 Pioneer Blvd.
Artesia, California

ALFORD HOME PRODUCTS
P. O. Box 239
Middlesex, North Carolina

ALLEN-CROWL CO.
1559 Allentown Road
P. O. Box 627
Lima, Ohio

ALLIED CHEMICAL CORP.
Barrett Division
40 Rector Street
New York 6, New York

ALLIED CHEMICAL CORP.
General Chemical Division
40 Rector Street
New York 6, New York

ALLIED DRUG PRODUCTS CO.
P. O. Box 871
Chattanooga 1, Tennessee

ALLIED PRODUCERS & SUPPLY CO.
P. O. Box 3421
Charlotte 3, North Carolina

AMCHEM PRODUCTS, INC.
Brookside Road
Ambler, Pennsylvania

AMERICAN CYANAMID CO.
P. O. Box 400
Princeton, New Jersey

AMERICAN MINERAL SPIRITS CO.
Mountain Avenue
Murray Hill, New Jersey

AMERICAN OIL CO.
910 S. Michigan Avenue
Chicago 80, Illinois

AMERICAN PAPER & PLASTIC PROD-
UCTS, INC.
4425 N. Port Washington Road
Milwaukee 12, Wisconsin

AMERICAN SCIENTIFIC LABORATORIES,
INC.
P. O. Box 1288
Madison 1, Wisconsin

AMERICAN STERILIZER CO.
2424 W. 23rd Street
Erie, Pennsylvania

AMWAY SALES CORP.
7575 E. Fulton Road
Ada, Michigan

ANDROC CHEMICAL CO.
7301 W. Lake Street
St. Louis Park 26, Minn.

ANIMAL REPELLENTS, INC.
980 Ellicott Street
Buffalo 9, New York

A-PENN OIL CO.
P. O. Box 191
Butler, Pennsylvania

APEX CHEMICAL CO.
617 Salem Street
Apex, North Carolina

ARMOUR AGRICULTURAL CHEMICAL CO.
P. O. Box 900
Greensboro, North Carolina

ARMOUR AND CO.
1355 W. 31st Street
Chicago 9, Illinois

ARNOTT CHEMICAL & EXTERMINATING
CO.
249 Mass. Avenue
Indianapolis 4, Indiana

ASPDEN ASSOCIATES, INC.
1003 Battleground Avenue
Greensboro, North Carolina

ATLA CMEMICAL CO., INC.
415 S. Spring Street
Greensboro, North Carolina

ATLANTIC CHEMICAL CORP.
P. O. Box 930
Hendersonville, N. C.

ATLANTIC & PACIFIC TEA CO., THE
GREAT
2024 Thrift Road
Charlotte, North Carolina

ATLAS AGRICULTURAL CHEMICALS, INC.
P. O. Box 169
Waynesboro, Georgia

AVRIL, INC.
Third & Greenwich Streets
Reading, Pennsylvania

AYERST LABORATORIES, INC.
685 Third Avenue
New York 17, New York

BABBITT, B. T., INC.
20 Broadway
Albany, New York

BARKER, MOORE & MEIN CO., INC.
P. O. Box 12
Lebanon, Pennsylvania

- BAUER & BLACK
Division of The Kendall Co.
309 W. Jackson Blvd.
Chicago 6, Illinois
- BELL CO., INC.
411 N. Wolcott
Chicago 22, Illinois
- BEN VENUE LABORATORIES, INC.
270 Northfield Road
Bedford, Ohio
- BERLOU MANUFACTURING CO.
421 Monroe Street
Marion, Ohio
- BEST EXTERMINATING SERVICE
317 W. Pettigrew Street
Durham, North Carolina
- BIO-LAB, INC.
P. O. Box 89
Decatur, Georgia
- BLACK LEAF PRODUCTS CO.
6147 N. Broadway
Chicago 40, Illinois
- BLACK MAGIC CO.
509 Green Street
Valdosta, Georgia
- BLACK PANTHER CO., INC.
P. O. Box 690
Sanford, North Carolina
- BLUE MAGIC CO.
509 S. Lodge Street
Wilson, North Carolina
- BOHLENDER PLANT CHEMICALS, INC.
Tipp City
Ohio
- BON AMI CO., INC., THE
51 Garfield Street
Holyoke, Mass.
- BONIDE CHEMICAL CO.
382 N. Genesee Street
Utica 4, New York
- BORDERLAND PRODUCTS, INC.
560 Fulton Street
Buffalo, New York
- BOYER CHEMICAL CO.
1611 Church Street
Evanston, Illinois
- BOYLE-MIDWAY, INC.
685 Third Avenue
New York 17, New York
- BRADSHAW SUPPLY CO.
Canton
Georgia
- BUCKEYE CHEMICAL & SPECIALTY
49 East 21 Street
New York 10, New York
- BURPEE, W. ATLEE CO.
18th St. & Hunting Park Ave.
Philadelphia 32, Pa.
- CALIFORNIA CHEMICAL CO.
Ortho Division
Richmond 4, California
- CALUMET & HECLA, INC.
Calumet Division
1 Calumet Avenue
Calumet, Michigan
- CAPE FEAR CHEMICALS, INC.
P. O. Box 695
Elizabethtown, North Carolina
- CAPITOL CHEMICAL CO.
3255 Prospect Avenue, N. W.
Washington 7, D. C.
- CARAJON CHEMICAL CO., INC.
P. O. Box 167
Fremont, Michigan
- CARBOLA CHEMICAL CO., INC.
Natural Bridge
New York
- CARBOLINEUM WOOD PRESERVING CO.
6683-N. 40th Street
Milwaukee, Wisconsin
- CARDINAL PRODUCTS, INC.
P. O. Box 1611
Durham, North Carolina
- CAROLINA CHEMICAL CORP.
P. O. Box 70
Wilson, North Carolina
- CAROLINA CHEMICALS, INC.
P. O. Box 128
West Columbia, South Carolina
- CAROLINA FEED STORE
279 E. Main Avenue
Gastonia, North Carolina
- CAROLINA PACKING HOUSE SUPPLIES,
INC.
Green Sea Road
Tabor City, North Carolina
- CARTER'S DRUGS & SEEDS
31 Barnard Street
Savannah, Georgia
- CARTER INSECTICIDE & CHEMICAL CO.,
INC.
P. O. Box 209
Wallace, North Carolina
- C-B DRUG CO.
2219 Freedom Drive
Charlotte 8, North Carolina
- CENTER CHEMICAL CO.
P. O. Box 1888
Atlanta, Georgia
- CENTRAL CHEMICAL CORP.
P. O. Box 310
Hagerstown, Maryland
- CHAMBERS-GODFREY MFG. CO.
302-04 Broadway
Martin, Tenn.
- CHAPMAN CHEMICAL CO.
416 Brooks Road
Memphis 9, Tennessee
- CHAPMAN, M. A.
P. O. Box 691
Canton, North Carolina
- CHASE PRODUCTS CO.
19th & Gardner Road
Broadview, Illinois

CHEMAGRO CORP.
P. O. Box 4913
Kansas City 20, Missouri

CHEMCO INDUSTRIALS, INC.
P. O. Box 1772
Raleigh, North Carolina

CHEMICAL CORP. OF AMERICA
P. O. Box 3577
Tallahassee, Florida

CHEMICAL AND EQUIPMENT SALES AND
SERVICE CO. (CESSCO)
P. O. Box 135
Charlotte 1, North Carolina

CHEMICAL INSECTICIDE CORP.
30 Whitman Avenue
Metuchen, New Jersey

CHEMISTRY HALL LABORATORIES
P. O. Box 255
Bradenton, Florida

CHEM-SALTS, INC.
P. O. Box 505
Powder Springs, Georgia

CHEMWAY CORP.
Fairfield Road
Wayne, New Jersey

CHESTER CHEMICAL CORP.
2732 6th Avenue, S.
St. Petersburg, Florida

CHIPMAN CHEMICAL CO., INC.
Bound Brook
New Jersey

CLARKE & PROCTOR TURPENTINE CO.,
INC.
331-349 Worth Street
Fayetteville, North Carolina

CLEAN HOME PRODUCTS, INC.
2805 Locust Street
St. Louis 3, Missouri

CLEARY CORP., W. A.
P. O. Box 749
New Brunswick, New Jersey

CLOROX CO., THE
P. O. Box 599
Cincinnati 1, Ohio

COAHOMA CHEMICAL CO., INC.
P. O. Box 728
Clarksdale, Mississippi

COASTAL CHEMICAL CORP.
P. O. Box 627
Greenville, North Carolina

COLGATE-PALMOLIVE CO.
300 Park Avenue
New York 22, New York

COLONIAL PRODUCTS, INC.
P. O. Box 6325
West Palm Beach, Florida

COLONIAL STORES, INC.
215 Lawyers Bldg.
Greenville, South Carolina

COMET MANUFACTURING CORP.
1381 Dalon Dr., N.E.
Atlanta, Georgia

COMMON SENSE MFG. CO., INC.
1392 Niagara Street
Buffalo 13, New York

CONSAN CHEMICAL PRODUCTS
Michigan Tool Company
7125 E. McNichols Rd.
Detroit 12, Michigan

CONSOLIDATED PAINT & VARNISH CORP.
The East Ohio Building
Cleveland 14, Ohio

COOK CHEMICAL CO.
2500 Summit Street
Kansas City, Missouri

COOPER, WILLIAM & NEPHEWS, INC.
1909 N. Clifton Avenue
Chicago 14, Illinois

COUGHLAN, G. N. CO.
29 Spring Street
West Orange, New Jersey

COWLEY, S. L. & SONS MFG. CO., INC.
708 W. McAlester Street
Hugo, Oklahoma

CRE-O-TOX CHEMICAL PRODUCTS CO.
2670 Broad Avenue
Memphis, Tennessee

CUTTER LABORATORIES, INC.
Fourth and Parker Streets
Berkeley 10, California

DAIRY ASSOCIATION CO., INC.
Lyndonville
Vermont

DALY-HERRING CO.
Adkin & University Streets
Kinston, North Carolina

DARWORTH INC.
Cuprinol Division
P. O. Box 308
Simsbury, Conn.

DAUBERT CHEMICAL CO.
4700 S. Central Avenue
Chicago 38, Illinois

DAVIES-YOUNG SOAP CO., THE
705 Albany Street
Dayton 1, Ohio

d-CON CO., INC., THE
1450 Broadway
New York 18, New York

DESOTO CHEMICAL CO., INC.
P. O. Box 70
Arcadia, Florida

DETTELBACH PESTICIDE CORP.
4103 Peachtree Road, N.E.
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300 Union Commerce Bldg.
Cleveland 14, Ohio

DILL CO., INC., THE
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Norristown, Pa.

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212 W. Monroe Street
Chicago 13, Illinois

DIXI CHEMICAL CO.
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Chattanooga, Tennessee

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Liberty, Missouri

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Richmond, Virginia

DOW CHEMICAL CO., THE
825 E. Main Street
Midland, Michigan

DRACKETT PRODUCTS CO., THE
5020 Spring Grove Avenue
Cincinnati 32, Ohio

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Jackson, Mississippi

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136 Elm Street
S. Williamsport, Penn.

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6054 Du Pont Bldg.
Wilmington 98, Delaware

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Chattanooga, Tennessee

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ELECTROLUX CORP.
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Elanco Products Co., Div.
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Clinton Corners, New York

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Food Machinery & Chemical Corp.
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Middleport, New York

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Phoenix, Arizona

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Savannah, Georgia

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Philadelphia 31, Pa.

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Rochester 9, New York

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Wichita, Kansas

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24-64 45th Street
Long Island City 3, New York

GEIGY AGRICULTURAL CHEMICALS
P. O. Box 430
Yonkers, New York

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P. O. Box 101
Macon, Georgia

GEORGIA GULF SULFUR CORP.
Spring Creek Road
Bainbridge, Georgia

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1261 West 42nd Street
Norfolk 8, Virginia

GLAMORENE, INC.
175 Entin Road
Clifton, New Jersey

GLAMUR PRODUCTS, INC.
1024 Montgomery Street
Syracuse 3, New York

GLIDDEN CO., THE
900 Union Commerce Bldg.
Cleveland 14, Ohio

GLOBE LABORATORIES
Div. of Chas. Pfizer & Co., Inc.
116 Commerce Street
Fort Worth 2, Texas

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1001 Franklin Avenue
Garden City, New York

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Charleston, South Carolina

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1407 Battleground Avenue
Greensboro, North Carolina

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753 Warner Bldg.
Washington 4, D. C.

GREEN THUMB PRODUCTS
Toledo
Ohio

GREEVER'S
Chilhowie
Virginia

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712 E. 64th Street
Indianapolis, Ind.

GUARD CHEMICAL CO., INC.
North Water Street
Ossining, New York

GUARDIAN CHEMICAL CO.
P. O. Box 1354
Atlanta 1, Georgia

GULF OIL CORP.
P. O. Box 1519
Houston 1, Texas

GURMICO CHEMICALS, INC.
P. O. Box 146
Princeton, North Carolina

GUSTAFSON MFG. CO., INC.
6501 Cambridge Street
Minneapolis 26, Minnesota

HANKSCRAFT CO.
728 Booster Blvd.
Reedsburg, Wisconsin

HAPPY JACK, INC.
P. O. Box 475
Snow Hill, North Carolina

HARRIS PRODUCTS CO. INC.
P. O. Box 4
Miami Beach 39, Florida

HARRIS & CO., INC., J. M.
P. O. Box 411
Roanoke, Virginia

HARRIS MFG. CO., INC., P. F.
101 W. 8th Street
North Little Rock, Arkansas

HARTZ MOUNTAIN PRODUCTS CORP.
50 Cooper Square
New York 3, New York

HELLER LABORATORIES, INC.
A Div. of E. Heller & Co.
Calumet Avenue & 40th St.
Chicago 53, Illinois

HERCULES POWDER CO.
910 Market Street
Wilmington, Delaware

HERTRON CHEMICAL CO.
306 Clanton Road
Charlotte 3, North Carolina

HESS & CLARK, INC., DR.
Div. of Richardson-Merrell, Inc.
7th & Orange Sts.
Ashland, Ohio

HILL MANUFACTURING CO.
1500 Jonesboro Road, SE
Atlanta 15, Georgia

HILLYARD SALES CO.
302 N. 4th Street
St. Joseph 1, Missouri

HINTON & CO., INC.
67 Murray Street
New York 7, New York

HOLCOMB MFG. CO, J. I.
1601 Barth Avenue
Indianapolis 7, Indiana

HOLLINGSHEAD CORP., R. M.
840 Cooper Street
Camden 2, New Jersey

HOLLYWOOD TERMITE CONTROL CO.
938 N. Eastern Avenue
Los Angeles 63, California

HOOD CHEMICAL CO., INC.
Div. of Texize Chemicals, Inc.
215 Lawyers Bldg.
Greenville, South Carolina

HOOKER CHEMICAL CORP.
666 Fifth Avenue
New York 19, New York

HOPKINS AGRICULTURAL CHEMICAL
CO.
P. O. Box 584
Madison, Wisconsin

HOT SHOT QUALITY PRODUCTS, INC.
701 N. Main Street
Memphis, Tennessee

HOUSTON CO., SAM
P. O. Box 662
Talladega, Alabama

HOWERTON GOWEN CHEMICALS, INC.
E. 11th Street
Roanoke Rapids, North Carolina

HUGE CO., INC., THE
884 Hodiamont Avenue
St. Louis 12, Missouri

HUMBLE OIL & REFINING CO.
P. O. Box 2180
Houston 1, Texas

HUNTINGTON LABORATORIES, INC.
970 Tipton Street
Huntington, Indiana

HUTSON & SONS, H. G.
P. O. Box 2190
Atlanta 1, Georgia

HYDROPONIC CHEMICAL CO., INC.
P. O. Box 97-C
Copley 21, Ohio

INDEPENDENT EXTERMINATING CO.
OF N. C.
210 South Rutherford Street
Wadesboro, North Carolina

INDUSTRIAL FUMIGANT CO.
923 State Line
Kansas City 1, Missouri

INSECT CONTROL SALES & SERVICE
P. O. Box 152
Candor, North Carolina

IRWIN-WILLERT CO.
4044 Park Avenue
St. Louis 10, Missouri

J & F MANUFACTURING CO.
P. O. Box 40205
Houston, Texas

JOHNSON & SON, S. C., INC.
1525 Howe Street
Racine, Wisconsin

JORO, INC.
P. O. Box 411
Roanoke, Virginia

KAY CHEMICAL CO.
131 West High Street
High Point, North Carolina

KENT EXTERMINATING CO.
45 Union Cemetery Road
Concord, North Carolina

KERR CHEMICALS, INC.
Minit Spray Division
1001 Northwest Highway
Des Plaines, Illinois

KING CHEMICAL CO.
2342 South Lauderdale Street
Memphis 6, Tennessee

KING CO., JAMES W.
6420 Elwood Avenue
Jacksonville 8, Florida

KING RESEARCH, INC.
114 12th Street
Brooklyn 15, New York

KLENZADE PRODUCTS
Div. of Economics Lab., Inc.
P. O. Box 1020
Beloit, Wisconsin

KOPPERS CO., INC.
Tar Products Division
430 Park Avenue
New York 22, New York

KVP SUTHERLAND PAPER CO.
243 E. Paterson Street
Kalamazoo, Michigan

LAKE CHEMICAL CO.
P. O. Box 231
Calumet, Michigan

LABCO PET PRODUCTS CO.
281 Franklin Street
Boston 10, Mass.

LATHAN CHEMICAL PRODUCTS
503 Neuse Street
Oriental, North Carolina

LEGEAR, INC., DR.
4161 Beck Avenue
St. Louis 16, Missouri

LEHN & FINK PRODUCTS CORP.
445 Park Avenue
New York 22, New York

LESTER LABORATORIES, INC.
P. O. Box 4897
Atlanta 2, Georgia

LETHELIN PRODUCTS CO., INC.
15 MacQuesten Parkway, South
Mount Vernon, New York

LINCK CO., INC., O. E.
Route 46 and Valley Road
Clifton, New Jersey

LINDE CO.
Div. of Union Carbide Corp.
270 Park Avenue
New York 17, New York

LINEN WHITE PRODUCTS CO., INC.
P. O. Box 248
Clinton, North Carolina

McCORMICK & CO., INC.
McCormick Building
Baltimore 2, Maryland

MCKESSON LABORATORIES
P. O. Box 548
Bridgeport, Connecticut

MCLAUGHLIN GORMLEY KING CO.
1715 Fifth St., S.E.
Minneapolis 14, Minn.

MABEX CO., THE
Umbria & Lemonte Streets
Philadelphia 27, Pa.

MAHAFFEY CO.
P. O. Box 8145
Greenville, South Carolina

MAINTENANCE SUPPLY SERVICE
CORP.
P. O. Box 498
Huntersville, North Carolina

MALLINCKRODT CHEMICAL WORKS
P. O. Box 685
New York 8, New York

MARK LABORATORIES, INC.
7007 Kelly Street
Pittsburgh 8, Pa.

MARTIN, C. J. & SONS
1181 Airport Blvd.
Austin 2, Texas

MASTER PRODUCTS CO.
P. O. Box 531
Fayetteville, North Carolina

MASURY-YOUNG CO.
76 Roland Street
Boston 29, Mass.

MAXWELL INSECTICIDE CO., INC.
P. O. Box 5627
Raleigh, North Carolina

MEHERRIN AGRICULTURAL & CHEM.
CO.
Severn
North Carolina

MERCK & CO., INC.
Rahway
New Jersey

MERITRON PRODUCTS CO., INC.
P. O. Box 6055
Charlotte, North Carolina

MICHIGAN CHEMICAL CORP.
500 N. Bankson Street
St. Louis, Michigan

MIDLAND LABORATORIES
210-220 Jones Street
Dubuque, Iowa

- MIKE, INC.
P. O. Box 92
Newland, North Carolina
- MILLER CO., B. E.
P. O. Box 127
Hancock, Maryland
- MILLER CHEMICAL & FERTILIZER CORP.
3006 W. Cold Spring Lane
Baltimore 15, Maryland
- MILLS-PEARSON CORP.
Dianol Division
P. O. Box 10968
St. Petersburg 33, Florida
- MOLONY FERTILIZER CO.
P. O. Box 314
Charleston, South Carolina
- MOMAR, INC.
1830 Ellsworth Industrial Dr., N.W.
Atlanta 18, Georgia
- MONA INDUSTRIES, INC.
P. O. Box 1786
Paterson 17, New Jersey
- MONSANTO CHEMICAL CO.
800 North Lindbergh Blvd.
St. Louis, Missouri
- MORTON CHEMICAL CO.
Agri. Div.
110 N. Wacker Drive
Chicago 6, Illinois
- MOTOMCO, INC.
89 Terminal Avenue
Clark, New Jersey
- MUTUAL PRODUCTS CO.
509 North Fourth Street
Minneapolis, Minn.
- NALCO CHEMICAL CO.
6216 W. 66th Pl.
Chicago 38, Illinois
- NATCON CHEMICAL CO., INC.
Lexington & Revere Avenues
Bethpage, Long Island, New York
- NATIONAL CHEMSEARCH CORP.
P. O. Box 10087
Dallas 7, Texas
- NATIONAL HOG MEDICINE CO.
P. O. Box 1634
Raleigh, North Carolina
- NATIONAL LABORATORIES
Div. of Lehn & Fink Prods. Corp.
4934 Lewis Avenue
Toledo 12, Ohio
- NIAGARA CHEMICAL DIVISION
Food Machinery and Chemical Corp.
P. O. Box 1709
Jacksonville 1, Florida
- NIP-CO MANUFACTURING, INC.
200 Main Street
New Rochelle, New York
- NORCLIFF LABORATORIES
P. O. Box 471
Fairfield, Connecticut
- NORDA ESSENTIAL OIL & CHEMICAL CO., INC.
601 West 26th Street
New York 1, New York
- NOTT MANUFACTURING CO., INC.
200 S. Water Street
Poughkeepsie, New York
- NOWLAND DIV., THE GEO. H.
The Frank Tea & Spice Co.
538 E. 5th Street
Cincinnati 2, Ohio
- NUODEX PRODUCTS CO., INC.,
110 E. 42nd Street
New York 17, New York
- NUTRILITE PRODUCTS, INC.
5600 Beach Boulevard
Buena Park, California
- OAKWOOD MEDICAL CENTER, INC.
6711 Kingston Pike, SW
Knoxville, Tennessee
- ODOR-AIRE, INC.
1019 E. 2nd
Wichita, Kansas
- OLIN MATHIESON CHEMICAL CORP.
10 Light Street
Baltimore 3, Maryland
Williamston, N. C.
- ONE-SPOT CO.
P. O. Box 217
Jessup, Maryland
- OPITZ, INC., JOHN
50-14-39th Street
Long Island City 4, New York
- PAPER PRODUCTS INC.
P. O. Box 5158
Long Beach 5, California
- PARA INDUSTRIES, INC.
225 W. 34th Street
New York 1, New York
- PARKE, DAVIS & CO.
Foot of Joseph Campau
Detroit 32, Michigan
- PARRAMORE & GRIFFIN SEED CO., INC.
108 S. Toombs Street
Valdosta, Georgia
- PAXTON ENTERPRISES
Drawer A
Palacios, Texas
- PEARSON & CO.
151 N. Commerce St.
Mobile, Alabama
- PEELE CO. INC., W. R.
P. O. Box 275
Clayton, North Carolina
- PENICK & CO., S. B.
100 Church Street
New York 8, New York
- PENN-CHAMP OIL CORP.
P. O. Box 191
Butler, Penn.
- PENNSALT CHEMICALS CORP.
Three Penn Center Plaza
Philadelphia 2, Pa.

- PENNSALT CHEMICALS CORP.
2901 Taylor Way
Tacoma 2, Washington
- PENNSYLVANIA ENGINEERING CO.
1107-21 N. Howard Street
Philadelphia 23, Pa.
- PENNSYLVANIA REFINING CO.
Commonwealth Bank & Trust Co. Bldg.
Butler, Pennsylvania
- PEST-GUARD PRODUCTS, INC.
731 W. Davis Street
Dallas 8, Texas
- PET CHEMICALS, INC.
1038 N.W. 21st Ter.
Miami, Florida
- PFEIFFER CO., THE
3965 Laclede Avenue
St. Louis 8, Missouri
- PFIZER & CO. INC., CHAS.
235 E. 42nd Street
New York, New York
- PHELPS DODGE REFINING CORP.
300 Park Avenue
New York 22, New York
- PIC CORP.
480 Washington Street
Newark 2, New Jersey
- PIONEER MANUFACTURING CO., THE
3053 E. 87th Street
Cleveland 4, Ohio
- PIONEER SALT CO.
940 N. Delaware Avenue
Philadelphia 23, Pa.
- PITTSBURGH PLATE GLASS CO.
New Albany Road
Moorestown, New Jersey
- PLANTABBS CORP.
1105 Maryland Avenue
Baltimore 1, Maryland
- PLANTERS CHEMICAL CORP.
3111 Virginia Beach Blvd.
Norfolk 16, Virginia
- PLOUGH, INC.
3022 Jackson Avenue
Memphis, Tennessee
- POLK MILLER PRODUCTS CORP.
2007 North Hamilton Street
Richmond 30, Virginia
- POPLIN CHEMICAL CO.
Route 1, Box 300
Statesville, North Carolina
- PRATT CO., B. G.
204 21st Avenue
Paterson, New Jersey
- PRATER WHOLESALE CO., E. H.
Route 3
Seneca, South Carolina
- PROCTER & GAMBLE CO., THE
P. O. Box 599
Cincinnati 1, Ohio
- PROTECTION PRODUCTS MFG. CO.
Div. of United States Plywood Corp.
2305 Superior Avenue
Kalamazoo, Michigan
- PUREX CORP., LTD.
5101 Clark Avenue
Lakewood, California
- PYRROLE CHEMICAL CORP.
817 Spring Lane
Portsmouth, Ohio
- RALSTON PURINA CO.
835 South Eighth Street
St. Louis, Missouri
- RAT LUNCHES CO.
10 S. Winona Ct.
Denver 19, Colorado
- RAWLEIGH CO., THE W. T.
223-225 E. Main Street
Freeport, Illinois
- REARDON LABORATORIES, INC., W. G.
330 North Main Street
Port Chester, New York
- REEFER-GALLER, INC.
521 Fifth Avenue
New York 17, New York
- REICHOLD CHEMICALS, INC.
Tuscaloosa
Alabama
- REXAIR, INC.
c/o The Ottawa Chemical Company
700 N. Wheeling Street
Toledo 5, Ohio
- REXALL DRUG CO.
8480 Beverly Boulevard
Los Angeles 54, California
- REX RESEARCH CORP.
600 Montrose Avenue
Toledo 7, Ohio
- RIGO MANUFACTURING CO.
P. O. Box 1188
Nashville, Tennessee
- RINGER CORP., JUDD
3355 Republic Avenue
Minneapolis 26, Minnesota
- R-L LABORATORIES, INC.
245 Fifth Avenue
New York, New York
- RODENT CONTROL FUND, N. C. STATE
COLLEGE
P. O. Box 5577, State College Station
Raleigh, North Carolina
- ROHM & HAAS CO.
222 W. Washington Square
Philadelphia 5, Pa.
- ROLFES CO., GEORGE A.
Paratrol Division
P. O. Box 548
Boone, Iowa
- ROYAL CHEMICAL CO., INC.
P. O. Box 922
Albemarle, North Carolina

ROYSTER CHEMICAL CO.
West Pine Street
Farmville, North Carolina

RUST-OLEUM CORP.
2425 Oakton Street
Evanston, Illinois

SABINE CHEMICAL CO.
P. O. Box 1206
Port Arthur, Texas

SALSBUARY'S LABORATORIES, DR.
500 Gilbert Street
Charles City, Iowa

SANFAX CORP.
P. O. Box 604
Atlanta, Georgia

SAPRISE CHEMICALS, INC.
P. O. Box 682
Greer, South Carolina

SAUER, THE C. F. CO.
2000 West Broad Street
Richmond 20, Virginia

SCOTT & SONS CO., O. M.
Marysville
Ohio

SEACOAST LABORATORIES, INC.
156 Perry Street
New York 14, New York

SEARS, ROEBUCK & CO.
925 South Homan Avenue
Chicago 7, Illinois

SELIG CO., THE
342 Marietta St., N.W.
Atlanta 13, Georgia

SENORET CHEMICAL CO.
610 Gratiot Street
St. Louis 2, Missouri

SEXTON & CO., JOHN
P. O. Box 8281
Philadelphia 1, Pa.

SHELL CHEMICAL CO.
110 W. 51st Street
New York 20, New York

SHELL OIL CO.
50 W. 50th Street
New York 20, New York

SHEPARD CHEMICAL WORKS
Hwy. 74
Wilmington, North Carolina

SHULTON, INC.
697 Route 46
Clifton, New Jersey

SIGNAL OIL AND GAS CO.
P. O. Box 5008
Houston 12, Texas

SINGLETARY, JR. & CO., F. B.
208 S. Washington Street
Rocky Mount, North Carolina

SMITH-DOUGLASS CO., INC.
P. O. Box 419
Norfolk, Virginia

SMITH SEED & FEED CO.
315 Lynn Street
Danville, Virginia

SMITH SPECIALTIES CO., T. W.
P. O. Box 5146
Charlotte, North Carolina

S. C. PEACH GROWERS ASSOCIATION
P. O. Box 928
Spartanburg, South Carolina

SOUTHERN AGRICULTURAL CHEMICALS,
INC.
P. O. Box 238
Kingstree, South Carolina

SOUTHERN AGRICULTURAL INSECTI-
CIDES, INC.
P. O. Box 352
Hendersonville, North Carolina

SOUTHERN CHEMICAL CO.
P. O. Box 930
Hendersonville, North Carolina

SOUTHERN TESTING & RESEARCH
LABS.
607 Park Avenue
Wilson, North Carolina

SPINDLE CITY CHEMICAL CO.
Box 444
Sumter, South Carolina

SPIRITTINE CHEMICAL CO.
P. O. Box 233
Wilmington, North Carolina

SPRAYWAY, INC.
7644 Vincennes Avenue, S.
Chicago 20, Illinois

STALFORT PRESSURE-PAK, INC.
2012 Hammonds Ferry Road
Baltimore 27, Maryland

STANDARD LABORATORIES, INC.
201 Tabor Road
Morris Plains, New Jersey

STANDARD PACKAGING CORP.
200 E. 42nd Street
New York 17, New York

STANDARD SPRAY & SUPPLY CO.
P. O. Box 63
Lakeland, Florida

STAUFFER CHEMICAL CO.
P. O. Box 5388
Tampa 8, Florida

STEARNS' ELECTRIC PASTE CO.
8 So. Dearborn Street
Chicago 3, Illinois

STEPHENSON CHEMICAL CO.
P. O. Box 188
College Park, Ga.

STERLING CO., INC., THE
2801-05 Locust Street
St. Louis 3, Missouri

STERNO, INC.
300 Park Avenue
New York 22, New York

STERWIN CHEMICALS, INC.
1450 Broadway
New York 18, New York

STRICKLAND & CO., J.
1400 Ragan Street
Memphis, Tennessee

STULL'S CHEMICALS, INC.
P. O. Box 6386
San Antonio 9, Texas

SUN OIL CO.
1608 Walnut Street
Philadelphia 3, Pa.

SUWANNEE DRUG CO.
128 Central Avenue
Newberry, Florida

SWEENEY MFG., INC., W. R.
340 S. Main Street
Salisbury, Missouri

SWIFT & CO.
Agricultural Chemical Div.
P. O. Box 7537
Norfolk 15, Virginia

TAYLOR CHEMICAL CO.
P. O. Box 337
Aberdeen, North Carolina

TENNESSEE CORP.
617-29 Grant Building
Atlanta 1, Georgia

TERRELL MOTHPROOF INSTITUTE
2 West Columbia Street
Springfield, Ohio

TESCO CHEMICALS, INC.
P. O. Box 6286
Atlanta 3, Georgia

TEXAS REFINERY CORP.
P. O. Box 711
Fort Worth, Texas

TEXIZE CHEMICALS, INC.
125 Broadus Avenue
Greenville, South Carolina

THOMPSON CHEMICALS CORP.
3028 Locust Street
St. Louis 3, Missouri

THOMPSON-HAYWARD CHEMICAL CO.
P. O. Box 768
Kansas City 41, Missouri

THURON INDUSTRIES, INC.
Starbar Div.
12200 Denton Drive
Dallas 34, Texas

TRIANGLE CHEMICAL CO.
206 Lower Elm Street
Macon, Georgia

UNION CARBIDE CONSUMER PRODUCTS
CO.
Div. of Union Carbide Corp.
270 Park Avenue
New York 17, New York

UNION CARBIDE CORP.
270 Park Avenue, 25th Floor
New York 17, New York

UNIT CHEMICAL CORP.
4161 Redwood Avenue
Los Angeles 66, California

U. S. BORAX & CHEMICAL CORP.
3075 Wilshire Blvd.
Los Angeles 5, California

U. S. MARKETING, INC.
4428 Calliope Street
New Orleans, Louisiana

U. S. RUBBER CO.
Naugatuck Chem. Div.
Elm Street
Naugatuck, Conn.

UPJOHN CO., THE
7000 Portage Road
Kalamazoo, Michigan

VANDERBILT CO., INC., R. T.
230 Park Avenue
New York 17, New York

VANN CHEMICALS, INC.
P. O. Box 248
Clinton, North Carolina

VAPOR PRODUCTS CO.
P. O. Box 8294
Orlando, Florida

VAPORETTE, INC.
2425 S. Central Expressway
Dallas 15, Texas

VERKAMP CORP., THE
1920 Losantville Avenue
Cincinnati 37, Ohio

VESTAL LABORATORIES, INC.
Div. of DuBois Chems., Inc.
4963 Manchester
St. Louis 10, Missouri

VIKON CHEMICAL CO.
P. O. Box 277
Elon College, North Carolina

VINELAND CHEMICAL SALES CORP.
West Wheat Road
Vineland, New Jersey

VINELAND LABORATORIES, INC.
P. O. Box 70
Vineland, New Jersey

VINELAND POULTRY LAB.
P. O. Box 70
Vineland, New Jersey

VINSON CHEMICAL PRODUCTS CO.
4435 N. W. 2nd Avenue
Miami 37, Florida

VIRGINIA-CAROLINA CHEMICAL CORP.
Div. of Socony Mobile Oil Co., Inc.
401 E. Main Street
Richmond, Virginia

VIRGINIA CHEMICALS & SMELTING CO.
West Norfolk
Virginia

WALGREEN LABORATORIES, INC.
4300 Peterson Avenue
Chicago 46, Illinois

WALTON-MARCH
1592 Deerfield Road
Highland Park, Illinois

WATKINS PRODUCTS, INC.
150 Liberty Street
Winona, Minnesota

WEEVIL-CIDE CO., THE
1323 Union Avenue
Kansas City, Missouri

WELLS & CO., INC., S. C.
1-3 Church St.
LeRoy, New York

WEST CHEMICAL PRODUCTS
42-16 West Street
Long Island City 1, New York

WESTCHESTER VETERINARY PROD-
UCTS
Combe Chem., Inc.
180 Mamaroneck Avenue
White Plains, New York

WESTERN AUTO SUPPLY CO.
c/o L. Teweles Seed Company
222 So. 3rd Street
Milwaukee 1, Wisconsin

WESTON PRODUCTS CO.
330 W. Salisbury Street
Asheboro, North Carolina

WHITMIRE RESEARCH LABS., INC.
339 S. Vandeventer Avenue
St. Louis 10, Missouri

WHITMOYER LABORATORIES, INC.
19 N. Railroad Street
Myerstown, Pa.

WILSON EXTERMINATING CO., INC.
405 West End Blvd.
Winston-Salem, N. C.

WINDSOR WAX CO., INC.
611 Newark St.
Hoboken, New Jersey

WINN CHEMICAL CO., INC.
P. O. Box 612
Anniston, Alabama

WINTER GARDEN ORNAMENTAL NURS-
ERY, INC.
P. O. Box 428
Winter Garden, Florida

WIRTHMORE FEEDS, INC.
243 Winter Street
Waltham 54, Mass.

WOOD RIDGE CHEMICAL CORP.
Park Place East
Wood Ridge, New Jersey

WOODLETS, INC.
2048 Niagara Street
Buffalo 7, New York

WOOD TREATING CHEMICALS CO.
5137 Southwest Avenue
St. Louis 10, Missouri

WOOLFOLK CHEMICAL WORKS, LTD.
East Main Street
Fort Valley, Georgia

WONDER PRODUCTS CO.
1409 S. Fulton Street
Salisbury, North Carolina

WORRELL-CONSOLIDATED LABS., INC.
1470 S. Vandeventer Avenue
St. Louis 10, Missouri

WYANDOTTE CHEMICALS CORP.
1609 Biddle Avenue
Wyandotte, Michigan

WYATT-QUARLES SEED CO.
327 S. Wilmington Street
Raleigh, North Carolina

WYETH LABORATORIES
Div. of American Home Prods. Corp.
P. O. Box 8299
Philadelphia 1, Pennsylvania

YALE CHEMICAL CO.
P. O. Box 715
Nashville, Tennessee

N. C. Aerial Crop Dusting Law and Regulations

The North Carolina Aerial Crop-Dusting Law, enacted by the General Assembly of 1953, has passed through its tenth year of enforcement. Its purposes are to protect public health and welfare, to bring improved order in the aerial dusting industry and to eliminate practices which were not in the best interest of the industry or those whom it serves. Marked progress has been made, but there is much yet to be accomplished. The North Carolina Aerial Applicators Association and other members of the industry sponsored the law and cooperate in its enforcement.

The law and the regulations promulgated thereunder, in summary, require the registration and licensing of those who engage in the custom application of pesticides by aircraft in this state. Qualifications for license requires adequate knowledge of the proper use and application of pesticides, the dangers involved and precautions necessary in their application.

Annual renewal of all licenses is required. The validity of any license is further restricted to the period of time that coverage by liability bond or insurance for damage by aircraft is in force. The minimum liability coverage is \$5,000.00 for property damage, \$10,000.00 for personal injury, and \$20,000.00 for any one accident.

Licenses are of two types: Contractors—who contract for the airplane application of pesticides; and Applicators or aviators—those who do the application work. An individual, upon qualification, may procure both licenses. Applicator's licenses, among other things, are contingent on Civil Aeronautics Authority certificates and waiver for low flying.

Licenses may be suspended or revoked if licensees are no longer qualified, for fraudulent, faulty, careless or negligent operations, or for other failure to comply with the requirements of the law. They are automatically nullified upon cancellation or expiration of liability coverage.

The law and regulations are given in the succeeding pages.

N. C. AERIAL CROP-DUSTING LAW

CHAPTER 106, N. C. GENERAL STATUTES.

Article 4B, Aircraft Application of Pesticides

§106-65.13. Definitions. For the purposes of this article:

- (1) The term "aircraft" means any contrivance now known or hereafter invented, used or designed for navigation of, or flight in, the air.
- (2) The term "Board of Agriculture" means the North Carolina Board of Agriculture.
- (3) The term "Commissioner" means the Commissioner of Agriculture.

(4) The term "custom application of pesticides" means any application of pesticides by aircraft.

(5) The term "fungi" means all non-chlorophyll-bearing thallophytes (that is, all non-chlorophyll-bearing plants of a lower order than mosses and liverworts), as, for example, but not limited to, rusts, smuts, mildews, molds, yeasts, and bacteria, except those on or in living man or other animals.

(6) The term "fungicide" means any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating fungi or plant disease.

(7) The term "herbicide" means any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating any weed.

(8) The term "insect" means any of the numerous small invertebrate animals generally having the body more or less obviously segmented, for the most part belonging to the class Insecta, comprising six-legged, usually winged forms, as, for example but not limited to, beetles, bugs, bees, and flies, and to other allied classes of arthropods whose members are wingless and usually have more than six legs, as, for example, but not limited to, spiders, mites, ticks, centipedes, and wood lice.

(9) The term "insecticide" means any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating any insects which may be present in any environment whatsoever.

(10) The term "person" means any individual, firm, partnership, association, corporation, company, joint stock association, or body politic, or any organized group of persons whether incorporated or not; and includes any trustee, receiver, assignee, or other representative thereof.

(11) The term "pesticide" or "economic poison" means any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating any insects, rodents, fungi, bacteria, weeds, or other forms of plant or animal life or viruses, except viruses on or in living man or other animals, which the commissioner shall declare to be a pest.

(12) The term "weed" means any plant or plant part which grows where not wanted.

§106-65.14. Licenses.

a. It shall be unlawful for any person to engage in custom application of pesticides within this State at any time without a license issued by the Commissioner. Application for a license shall be made to the Commissioner and each application shall contain information regarding the applicant's qualifications and proposed operations and such other relevant matters as may be required pursuant to regulations promulgated by the Board of Agriculture.

b. The Commissioner may require the applicant to show, upon examination, that he possesses adequate knowledge concerning the proper use and application of pesticides, and the dangers involved and precautions to be taken in connection with their application. If the applicant is other than an individual, the applicant shall designate an officer, member, or

technician of the organization to take the examination, such designee to be subject to the approval of the Commissioner. If the extent of the applicant's operations warrant it, the Commissioner may require more than one officer, member or technician to take the examination.

c. If the Commissioner finds the applicant qualified, the Commissioner shall issue a license, which shall authorize the licensee to perform custom application of pesticides within this State. The license may restrict the applicant to the use of a certain type or types of materials if the Commissioner finds that the applicant is qualified to use only such type or types. If a license is not issued as applied for, the Commissioner shall inform the applicant in writing of the reasons therefor. All licenses issued under this article shall expire on December 31 of each year and may be renewed upon the filing of a new application therefor.

d. The Commissioner may suspend, pending inquiry, for not longer than ten days, after opportunity for a hearing, may revoke, or modify the provisions of any license issued under this section, if he finds as a fact that the licensee is no longer qualified or has engaged in fraudulent business practices in the custom application of pesticides, or has made any custom application in a faulty, careless, or negligent manner, or has violated any of the provisions of this article or regulations made thereunder.

e. The Commissioner may require, under such rules and regulations as may be promulgated under this article, from each applicant a liability bond against damage to person or property by aircraft and a reasonable performance bond with sufficient surety satisfactory to the Commissioner, which performance bond is to secure the performance of contractual obligations of the licensee with respect to custom application of pesticides. Any person injured by the breach of any such obligation or any person damaged by such aircraft shall be entitled to sue on the bond in his own name in any court of competent jurisdiction to recover the damages he may have sustained.

f. Any person aggrieved by any action of the Commissioner may within ten days after notice thereof request a review of said action by the Board of Agriculture. If no request for review is so made, the decision of the Commissioner shall be final. If a review is so requested, the Board of Agriculture shall promptly review the action of the Commissioner and either affirm or over-rule his action. If the Board of Agriculture affirms the Commissioner, it shall find the facts of the case and the aggrieved person may within thirty days after notice thereof appeal to the Superior Court of the county in which such person resides or to the Superior Court of Wake County and the matter may be heard in or out of chambers. Notice of the appeal shall be served on the Commissioner and within ten days thereafter the Commissioner shall certify and file in the court to which the appeal is taken a transcript of any record pertaining thereto, including a transcript of evidence received. The court shall have jurisdiction to affirm, set aside or modify the action of the Board of Agriculture, *provided*, that the findings of fact as made by said Board, if supported by evidence, shall be conclusive.

Any license which has been suspended or revoked by the Commissioner or Board of Agriculture shall remain suspended or revoked until the laws, and regulations of the Board of Agriculture, have been complied with or until the decision or action of said Commissioner or Board has been set aside by court action.

§106-65.15. Regulations, materials and methods of application.—The Board of Agriculture, after public hearing, may adopt regulations prohibiting the use of materials or methods in custom application of pesticides to the extent necessary to protect health or property and may make such other regulations as it may deem necessary to carry out the provisions of this article. *Provided, however,* such regulations shall not be inconsistent with regulations issued by this State or by the Federal Government respecting safety in air navigation or operation of aircraft and before issuing any regulations directly related to any matter within the jurisdiction of any other official of this State, the Commissioner shall consult with that official with reference thereto.

§106-65.16 Reports.—The Board of Agriculture may by regulation require any licensee to maintain records and furnish reports giving information with respect to particular applications of pesticides and such other relevant information as the Board of Agriculture may deem necessary.

§106-65.17. Information.—The Commissioner may, in cooperation with the North Carolina Agricultural Experiment Station, publish information regarding injury which may result from improper application or handling of pesticides and the methods and precautions designed to prevent such injury.

§106-65.18. Penalties.—Any person violating the provisions of this article or the regulations issued hereunder shall be guilty of a misdemeanor and upon conviction shall be fined or imprisoned or both in the discretion of the court.

§106-65.19. Enforcement.—For the purpose of carrying out the provisions of this article the Commissioner may enter upon any public or private premises at reasonable times in order to have access for the purpose of inspecting any aircraft or materials subject to this article.

§106-65.20. Delegation of Duties.—The functions vested in the Commissioner by this article may be delegated by him to such employees of the Department of Agriculture or other qualified persons as the Commissioner may from time to time designate for such purposes.

§106-65.21. Cooperation.—The Commissioner may cooperate with any other agency of this State or its sub-divisions or with any agency of any other State or of the Federal Government for the purpose of carrying out the provisions of this article and of securing uniformity of regulations.

RULES, REGULATIONS, DEFINITIONS AND STANDARDS

CHAPTER XII

Application of Pesticides By Aircraft

ARTICLE 1. APPLICATION OF PESTICIDES BY AIRCRAFT

§12-1. Application for license.—Application for a license to engage in the custom application of pesticides by aircraft shall be made to the Commissioner of Agriculture upon forms prescribed for that purpose and furnished by the Department of Agriculture.

§12-2. Classes of licenses.—There shall be two classes of licenses which shall authorize the holders thereof to engage in the custom application of pesticides to the extent authorized by the license and the rules and regulations of the State Board of Agriculture. The classes of licenses shall be as follows:

(a) Contractor's License. A contractor's license shall authorize the holder thereof to contract for the aerial application of pesticides.

(b) Airplane Applicator's License. An airplane applicator's license shall entitle the holder thereof to apply pesticides as contracted for by the holder of an operator's license.

§12-3. Examination for license.—Before any license is issued, the Commissioner may require the applicant to undergo such examination and to submit such other information as the Commissioner in his discretion may deem necessary for a proper determination of the applicant's qualifications.

§12-4. Modification, revocation or suspension of license.—All licenses are subject to modification as to terms and privileges and may be revoked or suspended by the Commissioner of Agriculture according to the provisions of G.S. 106-65.14. Licenses may be issued for periods of less than one year but all licenses shall expire on December 31 of each year and may be renewed upon the filing of a new application therefor.

§12-5. Display of license.—All holders of contractor's or airplane applicator's licenses shall keep their licenses conspicuously posted at their place of business or about their person when engaged in the application of pesticides by aircraft and shall show their license upon request. Upon satisfactory proof of the loss or destruction of a license, a duplicate thereof may be issued to the qualified holder.

§12-6. Liability bond.—No airplane applicator's license shall be issued unless the applicant submits to the Commissioner of Agriculture along with the application for license a liability insurance policy covering said applicant and the person or persons for whom the custom application of pesticides is to be made against liability for damage to all persons or property caused by said aircraft. Said liability insurance policy shall cover at least \$5,000.00 for property damage, \$10,000.00 for personal injury, and

\$20,000.00 for any one accident; and shall be required to be in force for the duration of the applicant's license: Provided, however, it is not the intent of this regulation for any liability insurance policy to cover damages resulting from the application of pesticides, but only for damages caused by aircraft.

§12-7. Report and records.—Each contractor shall maintain daily reports and records on forms satisfactory to the Commissioner and all such reports and records shall be kept open and available for inspection by any authorized representative of the Department of Agriculture. Each contractor shall also submit to the Commissioner of Agriculture on or before December 31 of each year an annual report on forms furnished by the Commissioner, covering in detail the contractor's activities for the period covered by the report.

§12-8. Responsibility of contractors and applicators.—All contractors and applicators shall be responsible for the proper use and maintenance of equipment and for the proper use and application of pesticides; and shall at all times use due care for the protection of surrounding property, crops, fish ponds, plants and livestock. Any contractor or applicator who violates or disregards the provisions of this regulation or who makes any custom application in faulty, careless, or negligent manner shall have his license suspended or revoked according to the provisions of G.S. 106-65.14.

(Adopted: June 22, 1953)

(Authority: G. S. 106-65.15)

Licensees Under N. C. Aerial Crop-Dusting Law for 1963

This list gives the names of firms or individuals who registered with the North Carolina Department of Agriculture and were issued licenses as Contractors, Applicators, or both, for the year 1963. Each type of license is indicated in connection with the respective name of individual or firm as given in the list.

All licenses expire December 31, 1963, or earlier according to expiration of insurance coverage and are subject to renewal for operations in 1964.

MARVIN ANGE
Route 1, Box 112
Plymouth, North Carolina
Contractor

JACK B. ARMSTRONG
P. O. Box 1231
New Bern, North Carolina
Applicator

ASPLUNDH TREE EXPERT COMPANY
505 York Road
Jenkintown, Pennsylvania
Contractor

W. H. BAGGETT
General Delivery
Scotland Neck, North Carolina
603 So. 22nd Street
Ft. Pierce, Florida
Applicator and Contractor

MILTON R. BARNES
Coinjock, North Carolina
Applicator and Contractor

LLOYD H. BARNWELL
c/o M. E. Rogers Whse.
Suffolk, Virginia
Kittrell Livestock
Corapeake, North Carolina
826 N. Daughtry
Douglas, Georgia
Applicator and Contractor

MAURICE N. BRADFORD
P. O. Box 1231
New Bern, North Carolina
Applicator

FRAZIER MACK BRAME
Route 5
Reidsville, North Carolina
Applicator and Contractor

DONALD GRAHAM BROADWELL
120 Cox Avenue, Apartment 3
Raleigh, North Carolina
Applicator

ROBERT SAMUEL BRYAN
912 Monmouth Avenue
Durham, North Carolina
Applicator

J. H. BYNUM, JR.
P. O. Box 301
Washington, North Carolina
Applicator

CAMPRELL AIR SERVICE, INC.
Box 7261
Shreveport, Louisiana
Contractor

JOHN V. CAMPBELL
Box 7261
Shreveport, Louisiana
Applicator

OTTO F. CAMPBELL
Box 7261
Shreveport, Louisiana
Applicator

WILLIAM H. CANNADY, JR.
Route 1
Kittrell, North Carolina
Applicator

CAROLINA AIR TRADERS, INC.
P. O. Box 123
Morrisville, North Carolina
Contractor

CHARLES K. CARTER
P. O. Box 1231
New Bern, North Carolina
Applicator

H. H. CHRISTOPHER
Christopher Dusting Service, Inc.
P. O. Box 446
Rae'sford, North Carolina
P. O. Box 716
Okeechobee, Florida
Applicator and Contractor

CLINTON FLYING SERVICE
P. O. Box 63
Clinton, North Carolina
Contractor

JON B. COATS
c/o Daughtry Trailer Park
Clinton, North Carolina
Applicator

JON B. COATS & GABRIEL BARBREY
P. O. Box 345
Clinton, North Carolina
Contractor

BENJAMIN F. COLLINS
505 York Road
Jenkintown, Pennsylvania
Applicator

CRAFT SPRAYING, INC.
120 E. Wilson Street
Farmville, North Carolina
Contractor

JAMES L. DeHAVEN
P. O. Box 488
Ahoskie, North Carolina
Applicator

IRA CRAIG ELROD
1900 Providence Road
Charlotte, North Carolina
Applicator

GLEN CLARK ERWIN
Box 47
Graff, Missouri
Applicator

GEORGE A. EWELL
Box 101
Washington, North Carolina
Applicator

MALONE EWING
120 E. Wilson Street
Farmville, North Carolina
Route 2
Americus, Georgia
Applicator

JAMES JUNIOUS FAIRCLOTH
c/o Stencil Flying Service
P. O. Box 101
Washington, North Carolina
15 C Bowden Homes
Macon, Georgia
Applicator

SIDNEY E. GIBBS
King, North Carolina
Applicator

GREENVILLE AVIATION, INC.
P. O. Box 231
Washington, North Carolina
Contractor

WALTER RAY GRIFFIN
Route 1
Summerfield, North Carolina
Applicator and Contractor

S. W. HANKE
Clio, South Carolina
Box 29
Summerfield, Florida
Applicator and Contractor

WAYNE J. HENNINGES
1904 Old Cherry Point Road
New Bern, North Carolina
Applicator

WALTER E. HIGHT, JR.
P. O. Box 274
Henderson, North Carolina
Applicator

ROBERT ARNOLD KELLER
Route 3
Clinton, North Carolina
Watervliet, Michigan
Applicator

CLAIR K. KLINGER
c/o Dillard Powell
Ruffin, North Carolina
P. O. Box 214
Groveland, Florida
Applicator

HOLLEY'S DUSTING SERVICE, INC.
P. O. Box 945
Homestead, Florida
Contractor

JERNIGAN SPRAY SERVICE, INC.
P. O. Box 488
Ahoskie, North Carolina
Contractor

PERRY W. JONES
325 Spring Street
Hendersonville, North Carolina
843 N.W. 3rd Avenue
Homestead, Florida
Applicator

JOSEPH THOMAS KEECH
Route 1
Pantego, North Carolina
Contractor

KING FLYING SERVICE
Route 2
King, North Carolina
Contractor

EDMUND R. KIRKLAND
Dublin, North Carolina
2740 Broadmoor Drive
Columbus, Georgia
Applicator

JOHN D. KROM
Box 163
King, North Carolina
Emmitsburg, Maryland
Applicator

CLARENCE ROBERT LAY
Washington, North Carolina
407-B Hoke Street
New Bern, North Carolina
Applicator

JACK LOWERS
Route 3, Box 22 B
Clinton, North Carolina
Applicator and Contractor

JIMMY F. MARKHAM
Elizabeth City, North Carolina
P. O. Box 237
Washington, North Carolina
Applicator

ERNEST H. MARSHALL
School House Road
Route 1
Horse Shoe, North Carolina
28201 S.W. 195 Avenue
Route 1
Homestead, Florida
Applicator

S. S. MILLER
Chatham, Virginia
Applicator

CLARENCE T. MODLIN
205 Wilson Street
Laurinburg, North Carolina
Applicator

BRIAN LEE MOLINE
Route 3, Box 22 B
Clinton, North Carolina
Lewiston, Michigan
Applicator

WALTER C. MYERS
635 Oak Grove Drive
Graham, North Carolina
Applicator and Contractor

JAMES A. NAYLOR
P. O. Box 132
Clinton, North Carolina
Applicator

ROBERT A. NAYLOR
P. O. Box 63
Clinton, North Carolina
Applicator

HARRY W. NELSON
Route 1
Dover, North Carolina
P. O. Box 883
Ft. Pierce, Florida
Applicator and Contractor

DAVID D. NICHOLS
Charlotte, North Carolina
Horsham, Pennsylvania
Applicator

WAYNE NORTH
P. O. Box 231
Washington, North Carolina
Ft. Lauderdale, Florida
Applicator

DELMAR C. OWENS
Delmar C. Owens Crop Dusting Service
P. O. Box 183
Columbia, North Carolina
Applicator and Contractor

GROVER T. PARKS
Route 1
Climax, North Carolina
P. O. Box 2638
Greensboro, North Carolina
Applicator and Contractor

DILLARD M. POWELL
Powell Flying Service
Ruffin, North Carolina
Contractor

F. M. POWELL
1705 Powatan Street
Fayetteville, North Carolina
Applicator and Contractor

JAMES C. PRICE
Route 1, Airport Road
Dillon, South Carolina
Applicator and Contractor

B. THOMAS PROCTOR
c/o Kings Flying Service
Route 2
King, North Carolina
Box 245
Clay, West Virginia
Applicator

JOHN C. PULLEY
P. O. Box 123
Douglas, Georgia
Waycross, Georgia
Applicator

MITCHELL RIDDLE
Dobson, North Carolina
Applicator

RIDDLE & POINDEXTER CROP SPRAY-
ING, INC.
Route 2
Dobson, North Carolina
Contractor

ROCKY MOUNT AERIAL APPLICATORS
1320 Horne Street
Rocky Mount, North Carolina
Contractor

M. M. RODDY
430 Craig Street
Rocky Mount, North Carolina
Applicator

ROSS ANGEL & ASSOCIATES
Greenville, North Carolina
1608 Spring Garden Street
Greensboro, North Carolina
Contractor

JIM W. SARGENT, JR.
Box 7261
Shreveport, Louisiana
Applicator

SCOTLAND FLYING SERVICE, INC.
205 Wilson Street
Laurinburg, North Carolina
Contractor

NATHAN M. SIMPSON
Simpson Crop Service, Inc.
Route 2
Elon College, North Carolina
Applicator and Contractor

THOMAS E. STANCIL, JR.
Stancil Flying Service
1205 Bonner Street
Washington, North Carolina
Contractor

GENE A. SWOFFORD
112 Levera Street
Plymouth, North Carolina
Applicator

AYLOR T. TALBOTT
Aylor's Crop Spraying Service
Halifax Road
South Boston, Virginia
Applicator and Contractor

TAYLOR-WILKES COMPANY
Elizabethtown, North Carolina
Contractor

TRI STATE DUSTING COMPANY, INC.
Meyer Flying Service
Hendersonville, North Carolina
Box 1271
Homestead, Florida
Contractor

BENJAMIN W. TRUEBLOOD
1320 Horne Street
Rocky Mount, North Carolina
Applicator

ROBERT J. TURNER, JR.
Turner's Flying Service
543 Rowland Street
Henderson, North Carolina
Applicator and Contractor

FREDERICK J. VAUDRIN
Vaudrin Air Spray
1101 South 7th Street
Minneapolis 15, Minnesota
Dansbury, North Carolina
Applicator and Contractor

ALBERT RALPH VAUGHAN
Al's Crop Spraying Service
Route 3
Virgilina, Virginia
Applicator and Contractor

GEORGE VON HOLDT
c/o Kings Flying Service
Route 2
King, North Carolina
Box 522
Fertile, Minnesota
Applicator

JOHN CLARK WAGNER
Fairchild Airport
Burlington, North Carolina
Ingram, Kentucky
Applicator

GEORGE D. WALTERS
P. O. Box 84
Elizabeth City, North Carolina
Applicator and Contractor

HENRY C. WARF
War's Flying Service
Route 6
Reidsville, North Carolina
Applicator and Contractor

HARVEY R. WEAVER
1805 Brentwood Street
High Point, North Carolina
Applicator and Contractor

MARCUS O. WHITE
1544 Aspen, N. W.
Roanoke, Virginia
Applicator

FRED WHITFIELD
Fred's Spray Service
Fairchild Airport
602 Graham Hopedale Road
Burlington, North Carolina
Applicator and Contractor

ROBERT OWEN WHITFIELD
Whitfield Airplane Spraying
Route 2
Hurdle Mills, North Carolina
Applicator and Contractor

JOHN H. WHITTINGTON
1920 East Way Drive
Charlotte, North Carolina
Applicator

J. B. WILLIAMS, JR.
1320 Horne Street
Rocky Mount, North Carolina
Applicator

ROY WEAVER WOOD
Raeford, North Carolina
Applicator

Chemical and Common Names of Economic Poisons

ALDRIN:

Hexachlorohexahydro-endo, exo-dimethanonaphthalene

ALLETHRIN:

dl-2-allyl-4-hydroxy-3-methyl-2-cyclopenten-1-one ester of dl-cistrans-chrys-anthemum monocarboxylic acid

ANTU:

Alpha naphthyl thiourea

ARAMITE:

2(p-tert-butylphenoxy) isopropyl-2-chloroethyl sulfite; Beta-chloroethyl Beta-(p-tertiary-butylphenoxy)-a-methyl ethyl sulfite

ARSENIC TRIOXIDE:

Arsenious oxide

ATRAZINE:

2-chloro-isopropylamino-6-ethylamino-s-triazine

BAYTEX: BAYER 29493:

O, O-Dimethyl O-(4-methylthio-m-tolyl) phosphorothiate

BHC:

Benzene hexachloride; 1,2,3,4,5,6-Hexachlorocyclohexane

BORAX:

Sodium tetraborate decahydrate

BORIC ACID:

Boric acid; orthoboric acid

CALCIUM ARSENATE:

Tricalcium arsenate

CALCIUM CYANIDE:

Calcium cyanide

CAPTAN:

N-trichloromethylmercapto-4-cyclohexene-1,2-dicarboximide;
N-trichloromethylthio tetrahydrophthalimide

CHLORANIL; SPERGON:

2,3,5,6-Tetrachloro-1,4-benzoquinone

CHLORDANE:

1,2,4,5,6,7,8 Octachloro-4,7-methano-3a,4,7,7a-tetrahydroindane

CHLORTHION:

O,O-dimethyl-0-3-chloro-4-nitrophenyl thiophosphate

CIODRIN:

Alpha-methylbenzyl 3-(dimethoxyphosphinyloxy) cis-crotonate

COPPER ARSENATE (BASIC):

Cupric arsenate (Basic)

CO-RAL:

O,O-Diethyl O-(3 chloro-4-methyl-7-coumarinyl phosphorothioate

2,4-D:

2,4-Dichlorophenoxyacetic acid

DDD:

Dichloro diphenyl dichloroethane; 2,2 bis-(p-chlorophenyl)-1,1-dichloroethane

DDT:

Dichloro diphenyl trichloroethane; trichloro bis-(4-chlorophenyl) ethane

DDVP:

O,O-Dimethyl-2,2-dichloro vinyl phosphate

DEMETON:

Beta-ethylmercapto-ethyl diethyl thionophosphate

DIAZINON:

O,O-diethyl-O-2-isopropyl-4-methyl-6-pyrimidyl thiophosphate

DIBROM:

O,O-dimethyl-O-(1,2 dibromo-2,2 dichloroethyl) phosphate

DICHLONE-PHYGON:

2,3-Dichloro-1,4-napthoquinone

DIELDRIN:

Hexachloroepoxyoctahydro-endo,exo-dimethanonaphthalene

DIMITE:

1,1-Bis (p-chlorophenyl)-ethanol

DINITRO ORTHO CRESOL:

4,6-Dinitro-o-cresol; 2-methyl-4,6-dinitro-phenol

DIPTEREX:

O,O-Dimethyl-1-hydroxy-2,2,2-trichloroethyl phosphonate; Dimethyl-trichloro-hydroxyethylphosphate

DISODIUM METHYL ARSONATE:

Disodium methane arsonate hexahydrate

DISYSTON:

O,O-Diethyl S-2-(ethylthio) ethyl phosphoro dithioate

ENDRIN:

Hexachloroepoxyoctahydro-endo,endo-dimethanonaphthalene

ETHYL GUTHION:

O,O-Diethyl S-4-oxo-1,2,3-benzotriazin-3(4H)-ylmethyl phosphorodithioate

FERBAM:

Ferric dimethyldithiocarbamate

FUMARIN:

3-(1-Furyl-2-acetyl-ethyl) 4-hydroxycoumarin

GLYODIN:

2-Heptadecyl-2-imidazoline

GUTHION:

O,O-Dimethyl S-(4-oxo-1,2,3-benzotriazinyl-3-methyl) phosphorodithioate

HEPTACHLOR:

1,4,5,6,7,8,8a-Heptachloro-3a,4,7,7a-tetrahydro-4,7-endo-methanoindane

HEXACHLOROPHENE:

2,2'-Methylene-bis (3,4,6-trichlorophenol)

KARATHANE; CAPRYL:

4,6-Dinitro-2-caprylphenyl crotonate; 2-(1-methyl heptyl)-4,6-dinitrophenyl crotonate

KELTHANE:

1,1-bis (p-chlorophenyl)-2,2,2-trichloroethanol Bis (p-chlorophenyl) trichloroethanol

KEPONE:

Decachlorooctahydro-1,3,4-methano-2H-cyclobuta (cd) pentalen-2-one

KORLAN; RONNEL:

Dimethyl trichlorophenyl thiophosphate; O,O-Dimethyl O-2,4,5-trichlorophenyl phosphorothioate

LETHANE A-70:

Beta Beta dithiocyano diethyl ether

LETHANE 60:

Beta-thiocyanoethyl esters of C₁₀-C₁₅ aliphatic fatty acids

LETHANE 384:

Beta-Butoxy-Beta-thiocyano-diethyl ether

MALATHION:

O,O-Dimethyl dithiophosphate of diethyl mercaptosuccinate;
S-(1,2-dicarbethoxyethyl) O,O-dimethyl dithiophosphate

MANEB:

Manganese ethylenebisdithiocarbamate

METALDEHYDE:

Metaldehyde; metacetaldehyde

METHOXYCHLOR:

2,2-bis (p-methoxyphenyl)-1,1,1-trichloroethane

METHYL PARATHION:

O,O-Dimethyl-O-p-nitrophenyl thiophosphate

METHYL TRITHION:

O,O-Dimethyl S-(p-chlorophenylthio) methyl phosphorodithioate

MONURON:

3-(p-chlorophenyl)-1,1-dimethylurea

MYLONE:

3,5-Dimethyltetrahydro-1,3,5,2H-thiadiazine-2-thione

NEBURON:

1-n-Butyl-3-(3,4-dichlorophenyl)-1-methylurea

NEMAGON:

1,2-Dibromo-3-chloropropane

NICOTINE:

1-Methyl-2-(3-pyridyl) pyrrolidine

OVEX; OVOTRAN:

p-Chlorophenyl p-chlorobenzenesulfonate

PARADICHLOROBEZENE:

1,4-Dichlorobenzene

PARATHION:

O,O-Diethyl-O-paranitrophenyl thiophosphate

PARIS GREEN:

Copper acetoarsenite

PERTHANE:

1,1-Dichloro-2,2-bis-(p-ethylphenyl) ethane

PHALTAN:

N-(trichloromethylthio) phthalimide

PHENOL:

Carbolic Acid

PHOSDRIN:

Alpha isomer of 2-carbomethoxyl-1-methylvinyl dimethyl phosphate

PIPERONYL BUTOXIDE:

Butylcarbityl-6-(propyl piperonyl) ether

PIPERONYL CYCLONENE:

3,Isoamyl-5-(methylenedioxyphenyl)-2-cyclo-hexenone

PIVAL:

2-Pivalyl-1, 3-indandione

PIVALYN:

Sodium salt of 2-Pivalyl-1,3-indandione

POTASSIUM CYANATE:

Potassium cyanate

PYRETHRUM:

Chrysanthemum cineroreaeefolium

ROTENONE:

Rotenone

SABADILLA:

Schoenocaulon officinale

SEVIN:

1-Naphthyl-N-Methyl-carbamate

SILVEX:

2-(2,4,5-Trichlorophenoxy) propionic acid

SODIUM ARSENATE:

Sodium meta-arsenate

SODIUM ARSENITE:

Sodium meta-arsenite

SODIUM FLUORIDE:

Sodium fluoride

SODIUM FLUOSILICATE:

Sodium fluosilicate; sodium silicofluoride

STRYCHNINE:

Strychnine

STROBANE:

Mixture of heptachlorocamphene, heptachloropinene and other chlorinated terpenes

SULFUR:

Sulfur

2,4,5-T:

2,4,5-Trichlorophenoxyacetic acid

TEDION:

2,4,5,4'-Tetrachlorodiphenyl sulphone

TERRACHLOR:

Pentachloronitrobenzene

THALLIUM SULFATE:

Thallous sulfate

THANITE:

Isobornyl thiocyanate

THIODAN:

6,7,8,9,10,10-Hexachloro-1,5,5a,6,9,9a-hexa-hydro-6-9, methano-2,4,3-benzodioxathiepin-3-oxide

THIRAM:

Tetramethylthiuram disulfide

TOXAPHENE:

Octachlorocamphene

TRITHION:

O,O-Diethyl S-p-chlorophenylthiomethyl phosphorodithioate

VAPAM:

Sodium N-methyl dithiocarbamate dihydrate

VAPONA:

2,2 Dichlorovinyl dimethyl phosphate

WARFARIN:

3-(a-Acetylbenzyl)-4-hydroxycoumarin

ZINEB:

Zinc etheylenebisdithiocarbamate

ZIRAM:

Zinc dimethyldithiocarbamate

Official Analyses of Economic Poisons 1963

Official Analyses of Economic Poisons 1963

Summary of Economic Poisons Examined — 1963

TYPES	S A M P L E S				
	Passed	De- ficient	Exces- sive Active Ingre- dient	Mis- branded	Not Regis- tered
Arsenicals					
Arsenic Trioxide.....	6	8	2	....	1
Calcium Arsenate preparations.....	1	....	....	....	....
Copper Arsenate preparations.....	1	....	....	....	....
Lead Arsenate preparations.....	7	2	....	....	....
Sodium Arsenate.....	3	....	....	....	....
Tricalcium Arsenate preparations.....	1	1	1	....	1
Organic Chlorine Compounds					
Aldrin	10	....	....	....	....
BHC preparations.....	54	5	3	....	....
BHC-DDT preparations.....	21	5	....	....	1
Chlordane preparations.....	29	7	1	....	....
DDD preparations.....	60	6	1	....	....
DDT	56	4	....	....	2
DDT preparations.....	132	20	2	....	....
DDVP preparations.....	5	....	....	1	3
Dibrom	1	....	....	....	....
Dieldrin preparations.....	11	....	1	....	....
Endrin preparations.....	45	....	....	....	3
Heptachlor	11	1	1	....	2
Methoxychlor preparations.....	25	3	2	....	1
Perthane	1	....	....	....	....
Phaltan	2	....	....	....	....
Ronnel	2	....	....	....	....
Stroban preparations.....	4	....	....	....	....
Thiodan	3	....	....	....	....
Toxaphene preparations.....	94	5	....	....	1
Trithion	3	....	....	....	....
Metallic Compounds					
Copper preparations.....	5	1	....	....	....
Guthion preparations.....	2	....	....	....	....
Malathion preparations.....	49	23	....	....	1
Metallic Dithiocarbamates.....	5	2	....	....	....
Methyl Parathion.....	....	1	....	....	....
Parathion preparations.....	4	2	....	....	....
Phosdrin	1	2	....	....	....
Phosphorus	5	....	....	....	....
Thallium Sulfate.....	3	3	....	....	....
Botanicals					
Pyrethrin preparations.....	31	....	....	1	....
Rotenone preparations.....	31	7	1	....	4
Sabadilla preparations.....	11	....	....	....	....
Miscellaneous					
Antu .....	....	....	....	....	1
Baytex	1	....	....	....	....
Borax	1	....	1	....	....
Calcium Cyanide.....	3	....	....	....	....
Ciodrin	1	....	....	....	....
Cresylic Acid.....	1	....	....	....	....
Diethanolamine salt of 6 hydroxy-3-(2H) py- ridazinone	1	....	....	....	....
(Lauryl dimethyl 3,4 dichlorobenzyl ammon- ium chloride) (Myristyl dimethyl 3,4 di- chlorobenzyl ammonium chloride) (Palmi- tyl dimethyl 3,4 dichlorobenzyl ammonium chloride) (Stearyl dimethyl 3,4 dichloro- benzyl ammonium chloride).....	1	....	....	....	....
Pival compounds.....	3	....	....	....	3
Sevin preparations.....	65	5	6	....	1
Sodium Chlorate.....	1	....	....	....	....
Squill .....	....	....	....	1	1
Strychine Alkaloid.....	1	....	....	....	....
Warfarin	10	....	....	....	....
Zinc Phosphide.....	1	....	....	....	....
TOTALS	825	113	22	3	26

Number manufacturers registered (total) ----- 418

Number manufacturers registered from North Carolina ----- 64

Number of items registered ----- 4,235

Number stop sale orders issued ----- 132

Number of items stopped from sale because of failure to register --- 84

Decisions

The results of analyses of economic poisons are tabulated in the following pages. For the reader's ready interpretation of the analyses, designations used are explained in the following paragraphs.

"Passed" signifies that the labeling and composition of the product satisfactorily complied with guarantees and requirements. Small deviations in analyses are normal.

"Deficient" usually signifies that one or more ingredient fell significantly below guarantee, although it may also indicate an excess of a harmful ingredient, as in case of water-soluble arsenic. Such products, in most instances, qualify as unsatisfactory and are subject to "Stop Sale Order" and removal from the market for reprocessing or relabeling. In borderline cases, where exact values are indeterminate, the product is qualified as deficient but the manufacturer cautioned. In some instances where such goods have been used before analysis could be completed, the manufacturer has made settlement satisfactory to the user.

"Adulterated" indicates that significant quantities of undeclared active ingredients were present. Since proof of adulteration disqualifies a product, analysis may be discontinued at that point thus saving further expenditure of time and work. Such lots, batches or brands are stopped from sale and other appropriate action taken.

"Misbranded" signifies that labeling failed to conform to requirements. Omission of some item or statement is a more common flaw. Among these may be proper ingredient listing, skull and crossbones, "Poison" in red and an antidote where these are required; net contents by weight or volume; class of, and unsulfonated residues of petroleum oils; and percentages of alkaloids instead of crude product such as *sabadilla* seed.

In some instances of misbranding the defect appeared to be inadvertent or of a minor nature. It appeared permissible and fair to allow the manufacturer time for correction. In others, removal from sale was necessary.

"Not Registered" signifies that the product was not registered at the time it was sampled. Prompt registration is required or the product is removed from sale.

As has been the practice in past work, analyses were made largely for those ingredients which were considered of major importance, as, for example, gamma isomer of benzene hexachloride, whereas other isomers were not checked. For sake of brevity, items not generally checked are not listed in the tabulations. This should not be taken to indicate that manufacturers did not include them on labels. This procedure has been followed because it enables a broader coverage of all products offered for sale.

Official Analyses of Economic Poisons, 1963

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions*
ALDRIN			
Daly-Herring Co.			
Dee Aitch 5% Aldrin Granular			
Aldrin.....	5.00	6.61	Passed
Farmers Cooperative Exchange, Inc.			
FCX Aldrin Emulsifiable Concentrate			
Aldrin.....	23.32	23.79	Passed
do.....	23.32	24.52	Passed
Maxwell Insecticide Company, Inc.			
Maxwell Aldrin Emulsible Concentrate			
Aldrin.....	24.74	24.97	Passed
Niagara Chemical Div. Food Machinery and Chemical Corp.			
Niagara Aldrin 2½ % Dust			
Aldrin.....	2.50	2.58	Passed
W. R. Peele Company, Inc.			
Pelco 2 lb. Aldrin Emulsifiable Concentrate			
Aldrin.....	24.50	25.53	Passed
Southern Agricultural Chemicals, Inc.			
Royal Brand Aldrin 5 Granular			
Aldrin.....	5.00	5.29	Passed
Southern Agricultural Insecticides, Inc.			
SA-50 Brand 5% Aldrin Granules			
Aldrin.....	5.00	5.07	Passed
do.....	5.00	5.57	Passed
do.....	5.00	5.43	Passed
ARSENICALS			
ARSENIC TRIOXIDE			
Atlantic Chemical Corp.			
Nok-Out-Bam			
Arsenic trioxide.....	3.00	2.85	Passed
do.....	3.00	2.04	Deficient
do.....	3.00	2.21	Deficient
do.....	3.00	2.00	Deficient
do.....	3.00	2.20	Deficient

*See preceding page for explanations of "Decisions."

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
M. A. Chapman and Son			
Kill-Em Rat Poison			
Arsenic trioxide.....	2.00	1.73	Deficient
do.....	2.00	1.91	Passed
do.....	2.00	2.28	Passed
do.....	2.00	2.34	Passed
S. L. Cowley and Sons Manufacturing Company, Inc.			
Cowley's Rat and Mouse Poison			
Arsenic trioxide.....	1.75	2.59	Passed
do.....	1.75	2.24	Passed
Eagle Products Company, Inc. (Now: Eagle Chemical Company, Inc.)			
Flipo Rat Poison			
Arsenic trioxide.....	3.00	0.01	Not Registered Deficient
F. B. Singletary, Jr. and Co.			
Singletary's Single Treatment Pest Control			
Arsenic trioxide.....	3.50	5.30	Excessive Active Ingredient
do.....	3.50	7.02	Excessive Active Ingredient
Southern Chemical Co. (Now: Atlantic Chemical Corp.)			
Nok-Out-Bam			
Arsenic trioxide.....	3.00	2.28	Deficient
do.....	3.00	2.31	Deficient
CALCIUM ARSENATE-METALDEHYDE			
United Cooperatives, Inc. (Registered by Farmers Cooperative Exchange, Inc.)			
Unico Snail and Slug Pellets			
Calcium arsenate.....	5.00	5.40	Passed
Metaldehyde.....	3.20	3.19	
COPPER ARSENATE-COPPER SULFATE			
Acme Quality Paints, Inc.			
Acme Tomato Dust			
Copper arsenate.....	18.00		Passed
Copper sulfate.....	2.00		
Arsenic as metallic.....	4.80	4.97	
Arsenic water soluble (not more than).....	0.50	0.10	
Copper as metallic.....	10.00	10.71	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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LEAD ARSENATE**Acme Quality Paints, Inc.****Acme Arsenate of Lead**

Lead arsenate.....	98.00		Passed
Arsenic as metallic.....	20.00	22.00	
Arsenic water soluble (not more than).....	0.50	0.20	
Lead as metallic.....	58.00	59.14	

United Cooperatives, Inc.**(Registered by Farmers Cooperative Exchange, Inc.)****Unico Lead Arsenate (Standard)**

Lead arsenate.....	96.00		Passed
Arsenic as metallic.....	20.72	20.96	
Arsenic water soluble (not more than).....		0.29	
Lead as metallic.....	58.00	59.28	

Woolfolk Chemical Works, Ltd.**Security Brand Lead Arsenate**

Lead arsenate.....	97.00		Passed
Arsenic as metallic.....	20.90	21.14	
Arsenic water soluble (not more than).....	0.33	0.14	
Lead as metallic.....	57.80	58.79	
Lead arsenate.....	97.00		Passed
Arsenic as metallic.....	20.90	21.07	
Arsenic water soluble (not more than).....	0.33	0.10	
Lead as metallic.....	57.80	59.24	

LEAD ARSENATE-CAPTAN-DDT**United Cooperatives, Inc.****(Registered by Farmers Cooperative Exchange, Inc.)****Unico Fruit Spray Powder**

Lead arsenate.....	25.00	25.66	Deficient
Captan.....	10.00		
DDT.....	10.00		
Arsenic as metallic.....	5.39	5.54	
Arsenic water soluble (not more than).....	0.50	0.20	
Theoretical chlorine.....	8.54	7.93	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Lead arsenate.....	25.00	25.52	Deficient
Captan.....	10.00		
DDT.....	10.00		
Arsenic as metallic.....	5.39	5.51	
Arsenic water soluble (not more than).....	0.50	0.20	
Theoretical chlorine.....	8.54	8.05	

LEAD ARSENATE-COPPER- SULFUR-ZINC

Taylor Chemical Co.

Superkill Apple Spray

Lead arsenate.....	16.00	16.22	Passed
Copper.....	3.20	3.11	
Sulfur.....	38.00	45.58	
Zinc.....	4.60	4.54	
Arsenic as metallic.....	3.00	3.50	
Arsenic water soluble (not more than).....	0.30	0.03	

LEAD ARSENATE-SULFUR-ZINC

Woolfolk Chemical Works, Ltd.

Security Brand Pan Peach Spray

Lead arsenate.....	11.50	16.37	Passed
Sulfur.....	34.00	34.27	
Zinc.....	9.60	9.80	
Arsenic as metallic.....	2.48	3.34	
Arsenic water soluble (not more than).....	0.20	0.10	
Lead arsenate.....	11.50	9.36	Passed
Sulfur.....	34.00	34.84	
Zinc.....	9.60	9.53	
Arsenic as metallic.....	2.48	2.36	
Arsenic water soluble (not more than).....	0.20	0.05	

SODIUM ARSENATE

Harris Products Company, Inc.

Ant Buttons

Sodium arsenate.....	1.71	2.39	Passed
do.....	1.71	1.69	Passed

Senoret Chemical Co.

Terro Ant Killer

Sodium arsenate.....	2.27	2.72	Passed
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Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
TRICALCIUM ARSENATE-COPPER			
Seacoast Laboratories, Inc.			
Twin Light Tomato Dust			
Tricalcium arsenate.....	14.00		Deficient
Copper.....	7.00	6.09	Not
Arsenic as metallic.....	5.20	5.34	Registered
Arsenic water soluble (not more than).....	0.50	0.67	
Woolfolk Chemical Works, Ltd.			
Security Brand Tomato Dust			
Tricalcium arsenate.....	60.00		Passed
Copper.....	7.00	7.02	
Arsenic as metallic.....	22.69	21.74	
Arsenic water soluble (not more than).....	0.49	0.04	
TRICALCIUM ARSENATE-METALDEHYDE			
Boyle-Midway, Inc.			
Snarol Meal			
Tricalcium arsenate.....	5.00	7.80	Excessive
Metaldehyde.....	1.75	1.85	Active Ingredient
BHC			
California Chemical Company-Ortho Div.			
Ortho Isotox Transplanter Solution			
Gamma isomer of BHC.....	5.00	7.71	Excessive Active Ingredient
do.....	5.00	7.96	Excessive Active Ingredient
do.....	5.00	7.66	Excessive Active Ingredient
California Spray-Chemical Corp. (Now: California Chemical Company-Ortho Div.)			
Ortho Louse, Tick and Flea Powder			
Gamma isomer of BHC.....	1.00	1.00	Passed
Farmers Cooperative Exchange, Inc.			
FCX 1% Lindane Dust			
Gamma isomer of BHC.....	1.00	1.00	Passed
FCX 25% Lindane Wettable Spray Powder			
Gamma isomer of BHC.....	25.00	25.72	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Dr. LeGear, Inc.			
Dr. LeGear's Louse Powder			
Gamma isomer of BHC.....	1.00	1.10	Passed
do.....	1.00	1.03	Passed
do.....	1.00	1.07	Passed
do.....	1.00	1.05	Passed
do.....	1.00	1.10	Passed
do.....	1.00	1.08	Passed
do.....	1.00	1.00	Passed
do.....	1.00	1.00	Passed
Dr. L. D. LeGear Medicine Co. (Now: Dr. LeGear, Inc.)			
Dr. LeGear's Louse Powder			
Gamma isomer of BHC.....	1.00	0.95	Passed
Maxwell Insecticide Company, Inc.			
Maxwell 1% Lindane Dust			
Gamma isomer of BHC.....	1.00	1.15	Passed
Pennsalt Chemicals Corp.			
Lindane W-25 Wettable Spray Powder and Seed Treater			
Gamma isomer of BHC.....	25.00	24.75	Passed
Southern Agricultural Insecticides, Inc.			
SA-50 Brand 1% Lindane Dust			
Gamma isomer of BHC.....	1.00	1.55	Passed
Taylor Chemical Co.			
Superkill Transplant Solution			
Gamma isomer of BHC.....	5.00	5.31	Passed
Superkill W-6 Wettable Powder			
Gamma isomer of BHC.....	6.00	6.28	Passed
Thompson-Hayward Chemical Co.			
T-H Lindex 25W			
Gamma isomer of BHC.....	25.00	24.29	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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BHC-ARAMITE-CAPRYL-DDT-ZINEB**Maxwell Insecticide Company, Inc.**

Maxwell New Formula Rose Dust

Gamma isomer of BHC.....	1.00		Passed
Aramite.....	1.50		
Capryl.....	1.00		
DDT.....	5.00		
Zineb.....	6.00	6.10	
Theoretical chlorine.....	3.39	3.22	
Theoretical nitrogen.....	0.67	0.96	

BHC-ARAMITE-DDT-SULFUR-ZINEB**J. M. Harris Company, Inc.**

Dragon Rose Dust

Gamma isomer of BHC.....	1.00		Deficient
Aramite.....	1.50		
DDT.....	5.00		
Sulfur.....	25.00	25.62	
Zineb.....	6.00	5.28	
Theoretical chlorine.....	3.39	3.29	
Gamma isomer of BHC.....	1.00		Deficient
Aramite.....	1.50		
DDT.....	5.00		
Sulfur.....	25.00	25.17	
Zineb.....	6.00	5.15	
Theoretical chlorine.....	3.39	3.15	

BHC-CAPTAN-DDT-FERBAM-SULFUR**California Spray-Chemical Corp.**

(Now: California Chemical Company-Ortho Div.)

Ortho Rose Dust

Gamma isomer of BHC.....	1.00		Deficient
Captan.....	7.50		
DDT.....	5.00		
Ferbam.....	3.50	2.92	
Sulfur.....	30.00	29.91	
Theoretical chlorine.....	5.89	5.53	

BHC-CHLORDANE**Esso Standard Oil Co.**

(Now: Humble Oil and Refining Co.)

Flit Bug Killer

Gamma isomer of BHC.....	0.05		Passed
Chlordane.....	2.00		
Theoretical chlorine.....	1.32	1.32	
Gamma isomer of BHC.....	0.05		Passed
Chlordane.....	2.00		
Theoretical chlorine.....	1.32	1.31	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
BHC-COPPER			
Southern Agricultural Insecticides, Inc.			
SA-50 Brand Cucumber and Squash Dust with 1% Lindane			
Gamma isomer of BHC.....	1.00	1.47	Passed
Copper as metallic.....	6.50	6.70	
BHC-DDT			
California Chemical Company-Ortho Div.			
Ortho BHC-DDT 3-5 Dust			
Gamma isomer of BHC.....	3.00	3.08	Passed
DDT.....	5.00	4.89	
Ortho BHC-DDT 3-10 Dust			
Gamma isomer of BHC.....	3.00	3.48	Passed
DDT.....	10.00	9.72	
Gamma isomer of BHC.....	3.00	3.37	Passed
DDT.....	10.00	9.99	
Carolina Chemicals, Inc.			
Flight Brand BHC-DDT Dust 3-10-0			
Gamma isomer of BHC.....	3.00	3.49	Passed
DDT.....	10.00	10.67	
Farmers Cooperative Exchange, Inc.			
FCX 3-5-0 BHC and DDT Dust			
Gamma isomer of BHC.....	3.00	3.40	Passed
DDT.....	5.00	5.60	
W. R. Grace and Co. Davison Chemical Div.			
Naco Benny-Hex Cotton Dust 3-10			
Gamma isomer of BHC.....	3.00	3.61	Passed
DDT.....	10.00	9.88	
Niagara Chemical Div. Food Machinery and Chemical Corp.			
Niagara 3-10-0 Cotton Dust			
Gamma isomer of BHC.....	3.00	3.33	Passed
DDT.....	10.00	10.54	
Gamma isomer of BHC.....	3.00	3.47	Passed
DDT.....	10.00	10.15	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Planters Chemical Corp.			
Planters 3-5-0 Cotton Dust			
Gamma isomer of BHC.....	3.00	3.68	Passed
DDT.....	5.00	5.22	
Ralston Purina Co.			
Purina Stock Spray (Powder)			
Gamma isomer of BHC.....	2.50		Passed
DDT.....	25.00		
Theoretical chlorine.....	14.33	14.46	
Southern Agricultural Chemicals, Inc.			
Royal Brand 3-10-0 Cotton Dust			
Gamma isomer of BHC.....	3.00	3.52	Passed
DDT.....	10.00	10.30	
Gamma isomer of BHC.....	3.00	3.41	Passed
DDT.....	10.00	10.20	
Taylor Chemical Co.			
Taylor Cotton Dust 3-7-0			
Gamma isomer of BHC.....	3.00	3.62	Passed
DDT.....	7.00	8.40	
Superkill 3-10-0 Cotton Dust (Without Sulfur)			
Gamma isomer of BHC.....	3.00	3.22	Passed
DDT.....	10.00	10.54	
Woolfolk Chemical Works, Ltd.			
Security Brand 3-10-0 Cotton Dust			
Gamma isomer of BHC.....	3.00	3.94	Passed
DDT.....	10.00	10.62	
Security Brand 3-20-0 Cotton Dust			
Gamma isomer of BHC.....	3.00	3.25	Passed
DDT.....	20.00	21.57	
BHC-DDT-FERBAM-OVEX-SULFUR			
The Rose Manufacturing Co.			
Tri-Ogen Rose Dust			
Gamma isomer of BHC.....	0.50		Deficient Not Registered
DDT.....	5.00		
Ferbam.....	3.50	1.99	
Ovex.....	1.00		
Sulfur.....	20.00	20.80	
Theoretical chlorine.....	3.10	2.72	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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BHC-DDT-MALATHION-SULFUR-ZINEB

United Cooperatives, Inc.
(Registered by Farmers Cooperative Exchange, Inc.)

Unico Dust for Ornamentals

Gamma isomer of BHC.....	1.00		Deficient
DDT.....	5.00		
Malathion.....	4.00	2.69	
Sulfur.....	25.00	25.46	
Zineb.....	5.00	3.69	
Theoretical chlorine.....	3.23	3.30	
Gamma isomer of BHC.....	1.00		Deficient
DDT.....	5.00		
Malathion.....	4.00	2.43	
Sulfur.....	25.00	24.81	
Zineb.....	5.00	3.67	
Theoretical chlorine.....	3.23	3.25	

BHC-DDT-PHALTAN-SULFUR

California Chemical Company-Ortho Div.

Ortho Rose Dust

Gamma isomer of BHC.....	1.00		Passed
DDT.....	5.00		
Phaltan.....	7.50		
Sulfur.....	30.00	31.83	
Theoretical chlorine.....	5.92	5.79	

California Spray-Chemical Corp.

(Now: California Chemical Company-Ortho Div.)

Ortho Rose Dust

Gamma isomer of BHC.....	1.00		Passed
DDT.....	5.00		
Phaltan.....	7.50		
Sulfur.....	30.00	30.03	
Theoretical chlorine.....	5.92	5.62	

BHC-DDT-PHALTAN-SULFUR-ZINEB

United Cooperatives, Inc.

(Registered by Farmers Cooperative Exchange, Inc.)

Unico Rose and Floral Dust

Gamma isomer of BHC.....	1.00		Deficient
DDT.....	5.00		
Phaltan.....	5.00		
Sulfur.....	25.00	24.83	
Zineb.....	5.00	3.45	
Theoretical chlorine.....	5.02	4.86	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Unico Rose and Floral Dust (Continued)			
Gamma isomer of BHC.....	1.00		Deficient
DDT.....	5.00		
Phalton.....	5.00		
Sulfur.....	25.00	24.43	
Zineb.....	5.00	3.68	
Theoretical chlorine.....	5.02	4.82	
BHC-DDT-SULFUR			
Planters Chemical Corp.			
Planters 3-5-40 Cotton Dust			
Gamma isomer of BHC.....	3.00	3.76	Passed
DDT.....	5.00	5.82	
Sulfur.....	40.00	39.93	
BHC-DDT-THANITE			
Esso, Inc.			
(Now: Humble Oil and Refining Co.)			
Flit Fly and Mosquito Killer			
Gamma isomer of BHC.....	0.075		Passed
DDT.....	1.75		
Thanite.....	1.00	Present	Present
Theoretical chlorine.....	0.93	0.92	
Penola Oil Co .			
(Now: Humble Oil and Refining Co.)			
Flit Fly and Mosquito Killer			
Gamma isomer of BHC.....	0.075		Passed
DDT.....	1.75		
Thanite.....	1.00	Present	Present
Theoretical chlorine.....	0.93	1.07	
BHC-DICHLOROPHENE-MALATHION			
Happy Jack, Inc.			
Happy Jack Flea-Tick Powder			
Gamma isomer of BHC.....	1.00		Deficient
Dichlorophene.....	2.00		
Malathion.....	2.00	1.77	
Theoretical chlorine.....	1.26	1.24	
BHC-DIELDRIN			
California Chemical Company-Ortho Div.			
Ortho Lawn-Garden Dieldrin Granules			
Gamma isomer of BHC.....	1.00		Passed
Dieldrin.....	4.00		
Theoretical chlorine.....	2.96	2.83	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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BHC-DIELDRIN-PYRETHRINS**Penola Oil Co.****(Now: Humble Oil and Refining Co.)**

Flit Liquid Roach and Ant Killer

Gamma isomer of BHC.....	0.05		Passed
Dieldrin.....	0.45		
Pyrethrins.....	0.05	0.08	
Theoretical chlorine.....	0.29	0.30	

BHC-KARATHANE-KELTHANE-SEVIN-ZINEB**Woolfolk Chemical Works, Ltd.**

Security Brand Pan Plant Dust

Gamma isomer of BHC.....	1.00		Deficient
Karathane.....	1.00		
Kelthane.....	2.00		
Sevin.....	5.00		
Zineb.....	6.00	4.94	
Theoretical chlorine.....	1.68	2.00	
Theoretical nitrogen.....	1.02	1.16	

BHC-MANE6**Southern Agricultural Insecticides, Inc.**

SA-50 Brand Vegetable and Floral Dust

Gamma isomer of BHC.....	1.00	0.95	Passed
Maneb.....	5.00	5.65	

BHC-METHOXYCHLOR-SULFUR**Ralston Purina Co.**

Purina Insect Killer

Gamma isomer of BHC.....	0.50		Passed
Methoxychlor.....	2.50		
Sulfur.....	10.00	10.73	
Theoretical chlorine.....	1.13	1.22	
Gamma isomer of BHC.....	0.50		Passed
Methoxychlor.....	2.50		
Sulfur.....	10.00	10.72	
Theoretical chlorine.....	1.13	1.17	
Gamma isomer of BHC.....	0.50		Passed
Methoxychlor.....	2.50		
Sulfur.....	10.00	9.90	
Theoretical chlorine.....	1.13	1.40	
Gamma isomer of BHC.....	0.50		Passed
Methoxychlor.....	2.50		
Sulfur.....	10.00	11.03	
Theoretical chlorine.....	1.13	1.22	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Purina Insect Killer (Continued)			
Gamma isomer of BHC.....	0.50		Passed
Methoxychlor.....	2.50		
Sulfur.....	10.00	10.88	
Theoretical chlorine.....	1.13	1.28	
Gamma isomer of BHC.....	0.50		Passed
Methoxychlor.....	2.50		
Sulfur.....	10.00	10.85	
Theoretical chlorine.....	1.13	1.27	
Gamma isomer of BHC.....	0.50		Passed
Methoxychlor.....	2.50		
Sulfur.....	10.00	11.14	
Theoretical chlorine.....	1.13	1.23	
BHC--HEXACHLOROPHENE-- 2,2-THIOBIS (4-6 DICHLOROPHENOL)			
Dr. LeGear, Inc.			
Dr. LeGear's Flea, Tick Powder			
Gamma isomer of BHC.....	1.00		Passed
Hexachlorophene.....	1.00		
2,2-thiobis (4-6 dichlorophenol).....	1.00		
Theoretical chlorine.....	1.65	1.77	
Gamma isomer of BHC.....	1.00		Passed
Hexachlorophene.....	1.00		
2,2-thiobis (4-6 dichlorophenol).....	1.00		
Theoretical chlorine.....	1.65	1.69	
Gamma isomer of BHC.....	1.00		Passed
Hexachlorophene.....	1.00		
2,2-thiobis (4-6 dichlorophenol).....	1.00		
Theoretical chlorine.....	1.65	1.74	
Gamma isomer of BHC.....	1.00		Passed
Hexachlorophene.....	1.00		
2,2-thiobis (4-6 dichlorophenol).....	1.00		
Theoretical chlorine.....	1.65	1.73	
Gamma isomer of BHC.....	1.00		Passed
Hexachlorophene.....	1.00		
2,2-thiobis (4-6 dichlorophenol).....	1.00		
Theoretical chlorine.....	1.65	1.77	
Gamma isomer of BHC.....	1.00		Passed
Hexachlorophene.....	1.00		
2,2-thiobis (4-6 dichlorophenol).....	1.00		
Theoretical chlorine.....	1.65	1.71	
Gamma isomer of BHC.....	1.00		Passed
Hexachlorophene.....	1.00		
2,2-thiobis (4-6 dichlorophenol).....	1.00		
Theoretical chlorine.....	1.65	1.69	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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Dr. LeGear's Flea, Tick Powder (Continued)

Gamma isomer of BHC.....	1.00		Passed
Hexachlorophene.....	1.00		
2,2-thiobis (4-6 dichlorophenol).....	1.00		
Theoretical chlorine.....	1.65	1.67	
Gamma isomer of BHC.....	1.00		Passed
Hexachlorophene.....	1.00		
2,2-thiobis (4-6 dichlorophenol).....	1.00		
Theoretical chlorine.....	1.65	1.69	
Gamma isomer of BHC.....	1.00		Passed
Hexachlorophene.....	1.00		
2,2-thiobis (4-6 dichlorophenol).....	1.00		
Theoretical chlorine.....	1.65	1.71	
Gamma isomer of BHC.....	1.00		Passed
Hexachlorophene.....	1.00		
2,2-thiobis (4-6 dichlorophenol).....	1.00		
Theoretical chlorine.....	1.65	1.71	
Gamma isomer of BHC.....	1.00		Passed
Hexachlorophene.....	1.00		
2,2-thiobis (4-6 dichlorophenol).....	1.00		
Theoretical chlorine.....	1.65	1.71	
Gamma isomer of BHC.....	1.00		Passed
Hexachlorophene.....	1.00		
2,2-thiobis (4-6 dichlorophenol).....	1.00		
Theoretical chlorine.....	1.65	1.68	
Gamma isomer of BHC.....	1.00		Passed
Hexachlorophene.....	1.00		
2,2-thiobis (4-6 dichlorophenol).....	1.00		
Theoretical chlorine.....	1.65	1.74	
Gamma isomer of BHC.....	1.00		Passed
Hexachlorophene.....	1.00		
2,2-thiobis (4-6 dichlorophenol).....	1.00		
Theoretical chlorine.....	1.65	1.67	

**BHC-OVEX-PHALTAN-PYRETHRINS-
ROTENONE****California Chemical Company-Ortho Div.**

Ortho Rose and Flower Bomb

Gamma isomer of BHC.....	0.50		Passed
Ovex.....	0.125		
Phaltan.....	0.50		
Pyrethrins.....	0.025	0.04	
Rotenone.....	0.20	Present	
Theoretical chlorine.....	0.59	0.50	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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BHC-ROTENONE**Southern Agricultural Insecticides, Inc.****SA-50 Brand 1% Lindane 1% Rotenone**

Gamma isomer of BHC.....	1.00	0.98	Passed
Rotenone.....	1.00	0.97	

BHC-SULFUR**Ralston Purina Co.****Purina Hog and Cattle Dusting Powder**

Gamma isomer of BHC.....	1.00	1.10	Passed
Sulfur.....	10.00	10.91	
Gamma isomer of BHC.....	1.00	1.03	Passed
Sulfur.....	10.00	10.94	
Gamma isomer of BHC.....	1.00	1.07	Passed
Sulfur.....	10.00	10.33	

BHC-TOXAPHENE**Ralston Purina Co.****Purina Range Cattle Spray**

Gamma isomer of BHC.....	0.45		Passed
Toxaphene.....	45.00		
Theoretical chlorine.....	30.48	31.24	

Thompson-Hayward Chemical Co.**T-H Lindane Toxaphene Stock Spray and Dip**

Gamma isomer of BHC.....	1.00		Passed
Toxaphene.....	45.00		
Theoretical chlorine.....	30.88	31.23	

BORAX**Mahaffey Co.****Mahaffey's Roach Powder**

Borax.....	60.00	77.05	Passed
do.....	60.00	84.00	Excessive Active Ingredient

CALCIUM CYANIDE**American Cyanamide Co.****Cyanogos Ant-Killer**

Calcium cyanide.....	42.00	43.14	Passed
do.....	42.00	43.40	Passed
do.....	42.00	42.12	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
CHLORDANE			
Acme Quality Paints, Inc.			
Acme 6% Chlordane Dust			
Chlordane.....	6.00	6.64	Passed
California Chemical Company-Ortho Div.			
Ortho-Klor 10 Chlordane Dust			
Chlordane.....	10.00	9.86	Passed
Carbola Chemical Company, Inc.			
Carbolo CCC 6% Chlordane Dust			
Chlordane.....	6.00	6.51	Passed
Farmers Cooperative Exchange, Inc.			
FCX 5% Chlordane Dust			
Chlordane.....	5.00	4.93	Passed
FCX 10% Chlordane Dust			
Chlordane.....	10.00	9.50	Passed
do.....	10.00	9.07	Deficient
do.....	10.00	9.07	Deficient
do.....	10.00	9.37	Deficient
FCX Chlordane Emulsifiable Concentrate			
Chlordane.....	45.00	47.18	Passed
FCX 50% Wettable Chlordane Powder			
Chlordane.....	50.00	52.83	Passed
The Hilo Company, Inc.			
Hilo Tick and Flea Spray			
Chlordane.....	2.00	2.40	Passed
Hopkins Agricultural Chemical Co.			
Hopkins Fire Ant Dust			
Chlordane.....	10.00	9.43	Deficient
Hopkins Chlordane Emulsion			
Chlordane.....	45.00	45.08	Passed
Maxwell Insecticide Company, Inc.			
Maxwell Chlordane 8 Emulsifiable Concentrate			
Chlordane.....	72.00	71.03	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
W. R. Peele Company, Inc.			
Pelco Chlordane-8 Emulsifiable Concentrate			
Chlordane.....	72.00	74.74	Passed
B. G. Pratt Co.			
Pratt's 6% Chlordane Dust			
Chlordane.....	6.00	6.90	Passed
Rigo Manufacturing Co.			
Kill-Ko 10% Chlordane Dust			
Chlordane.....	10.00	11.93	Passed
do.....	10.00	8.57	Deficient
Southern Agricultural Insecticides, Inc.			
SA-50 Brand 5% Chlordane Dust			
Chlordane.....	5.00	5.43	Passed
SA-50 Brand 10% Chlordane Dust			
Chlordane.....	10.00	10.57	Passed
do.....	10.00	9.86	Passed
do.....	10.00	9.86	Passed
do.....	10.00	9.43	Deficient
do.....	10.00	8.43	Deficient
Taylor Chemical Co.			
Superkill 10% Chlordane Dust			
Chlordane.....	10.00	11.28	Passed
Thompson-Hayward Chemical Co.			
T-H Chlordane E-4			
Chlordane.....	45.00	45.38	Passed
United Cooperatives, Inc. (Registered by Farmers Cooperative Exchange, Inc.)			
Unico Chlordane Dust			
Chlordane.....	6.00	8.92	Excessive Active Ingredient
Unico Chlordane Emulsifiable Concentrate			
Chlordane.....	45.00	45.91	Passed
do.....	45.00	44.50	Passed
Unico Chlordane-8 Emulsifiable Concentrate			
Chlordane.....	73.00	72.63	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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Woolfolk Chemical Works, Ltd.

Security Brand 5% Chlordane Dust

Chlordane.....	5.00	4.89	Passed
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CHLORDANE-BORIC ACID**Heller Laboratories, Inc.**

\$1000.00 Guaranteed Roach Killer

Chlordane.....	0.20	0.35	Passed
Boric acid.....	51.00	50.71	

**CHLORDANE--DIAZINON--N-OCTYL BICYCLOHEPTENE
DICARBOXIMIDE--PIPERONYL BUTOXIDE--PYRETHRINS****Hot Shot Quality Products, Inc.**

Hot Shot Diazinon Bug Killer

Chlordane.....	1.00	1.02	Passed
Diazinon.....	0.333		
N-octyl bicycloheptene dicarboxi- mide.....	0.15		
Theoretical nitrogen.....	0.04	0.04	
Piperonyl butoxide.....	0.09	0.09	
Pyrethrins.....	0.06	0.08	

Chlordane.....	1.00	0.98	Passed
Diazinon.....	0.333		
N-octyl bicycloheptene dicarboxi- mide.....	0.15		
Theoretical nitrogen.....	0.04	0.05	
Piperonyl butoxide.....	0.09	0.08	
Pyrethrins.....	0.06	0.08	

Chlordane.....	1.00	1.17	Passed
Diazinon.....	0.333		
N-octyl bicycloheptene dicarboxi- mide.....	0.15		
Theoretical nitrogen.....	0.04	0.06	
Piperonyl butoxide.....	0.09	0.09	
Pyrethrins.....	0.06	0.08	

Chlordane.....	1.00	0.99	Passed
Diazinon.....	0.333		
N-octyl bicycloheptene dicarboxi- mide.....	0.15		
Theoretical nitrogen.....	0.04	0.09	
Piperonyl butoxide.....	0.09	0.08	
Pyrethrins.....	0.06	0.08	

**CHLORDANE-PIPERONYL BUTOXIDE-
PYRETHRINS****W. R. Peele Company, Inc.**

Pelco Roach and Ant Spray

Chlordane.....	2.00	1.95	Passed
Piperonyl butoxide.....	0.115	0.131	
Pyrethrins.....	0.046	0.06	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
COPPER			
Southern Agricultural Insecticides, Inc.			
SA-50 Brand Tomato Dust			
Copper as metallic.....	7.00	7.31	Passed
COPPER-SULFUR			
Armour Agricultural Chemical Co.			
Armagard Copper-Sulfur Dust for Peanuts			
Copper as metallic.....	4.00	3.80	Passed
Sulfur.....	85.00	85.83	
Meherrin Agricultural and Chemical Co.			
Red Kay 4% Copper Sulfur Peanut Dust			
Copper as metallic.....	4.00	4.10	Passed
Sulfur.....	86.00	82.01	
Niagara Chemical Div. Food Machinery and Chemical Corp.			
Niagara Peanut Dust 40-80			
Copper as metallic.....	4.00	3.99	Passed
Sulfur.....	80.00	79.21	
Olin Mathieson Chemical Corp.			
Mathieson Peanut Dust			
Copper as metallic.....	4.00	3.83	Passed
Sulfur.....	89.00	89.39	
Planters Chemical Corp.			
Planters Copper Sulfur Dust for Peanuts			
Copper as metallic.....	4.00	3.66	Deficient
Sulfur.....	85.00	83.88	
DDD			
California Chemical Company-Ortho Div.			
Ortho TDE 2 Spray			
DDD.....	25.00	19.88	Deficient
do.....	25.00	24.45	Passed
do.....	25.00	24.32	Passed
Carolina Chemical Corp.			
Tobacco Spray Rhothane Emulsible Concentrate			
DDD.....	23.98	24.26	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Daly-Herring Co.			
Bacco Spray Emulsifiable Concentrate			
DDD.....	23.76	23.91	Passed
do.....	23.76	24.75	Passed
do.....	23.76	24.71	Passed
do.....	23.76	24.01	Passed
do.....	23.76	23.71	Passed
Farmers Cooperative Exchange, Inc.			
FCX TDE Emulsifiable Concentrate			
DDD.....	23.90	25.24	Passed
do.....	23.90	25.72	Passed
Graham Chemical Company, Inc.			
Red Star 10% Rhothane Dust			
DDD.....	10.00	9.93	Passed
Red Star Tobacco Spray			
DDD.....	25.00	25.27	Passed
GurMiCo Chemicals, Inc.			
GurMiCo TDE 25 Emulsion			
DDD.....	25.00	25.58	Passed
do.....	25.00	24.76	Passed
do.....	25.00	24.21	Passed
Maxwell Insecticide Company, Inc.			
Maxwell 10% TDE Dust			
DDD.....	10.00	10.29	Passed
Maxwell 25% Rhothane Emulsion Concentrate			
DDD.....	25.00	26.34	Passed
do.....	25.00	25.13	Passed
do.....	25.00	25.58	Passed
do.....	25.00	25.69	Passed
Molony Fertilizer Co.			
Lightning Brand TDE Emulsible Concentrate			
DDD.....	23.80	26.07	Passed
Olin Mathieson Chemical Corp.			
Mathieson 10% TDE Dust			
DDD.....	10.00	10.43	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Mathieson TDE (DDD) 25% Emulsifiable Concentrate			
DDD.....	25.00	26.24	Passed
do.....	25.00	23.86	Passed
do.....	25.00	24.24	Passed
W. R. Peele Company, Inc.			
Pelco Rhothane Tobacco Dust			
DDD.....	10.00	8.07	Deficient
Pelco Tobacco Spray Emulsifiable Concentrate			
DDD.....	23.75	24.46	Passed
do.....	23.75	25.18	Passed
do.....	23.75	25.34	Passed
Planters Chemical Corp.			
Planters TDE 2 lb. Emulsion Concentrate			
DDD.....	23.80	23.31	Passed
do.....	23.80	23.96	Passed
Royster Chemical Co.			
Royster Chem-Pest "20T" Spray Concentrate			
DDD.....	23.70	25.20	Passed
do.....	23.70	24.73	Passed
Smith-Douglass Company, Inc.			
Smith-Douglass 2 lbs. TDE Emulsion Concentrate			
DDD.....	23.80	24.06	Passed
Southern Agricultural Chemicals, Inc.			
Royal Brand Rhothane Spray Concentrate			
DDD.....	23.80	24.89	Passed
Taylor Chemical Co.			
Superkill Tobacco Dust (contains 10% TDE)			
DDD.....	10.00	10.29	Passed
Superkill 24% TDE Emulsifiable Concentrate			
DDD.....	24.00	24.18	Passed
do.....	24.00	24.41	Passed
United Cooperatives, Inc. (Registered by Farmers Cooperative Exchange, Inc.)			
Unico TDE Emulsifiable Concentrate			
DDD.....	23.90	25.85	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
DDD-PARATHION			
California Chemical Company-Ortho Div.			
Ortho Parathion-TDE .5-2 Emulsive			
DDD.....	24.00	24.20	Passed
Parathion.....	6.00	6.55	
DDD.....	24.00	24.69	Deficient
Parathion.....	6.00	5.64	
Carolina Chemical Corp.			
Budworm Special			
DDD.....	23.39	22.33	Passed
Parathion.....	5.86	6.69	
Carter Insecticide and Chemical Company, Inc.			
Carolina Brand Tobacco Dust 10% TDE 1% Parathion			
DDD.....	10.00	9.86	Deficient
Parathion.....	1.00	0.82	
Carolina Brand TDE Parathion Tobacco Poison			
DDD.....	24.00	25.75	Passed
Parathion.....	5.00	5.71	
DDD.....	24.00	24.90	Passed
Parathion.....	5.00	6.42	
DDD.....	24.00	24.42	Passed
Parathion.....	5.00	6.04	
DDD.....	24.00	23.60	Passed
Parathion.....	5.00	6.49	
DDD.....	24.00	24.82	Passed
Parathion.....	5.00	6.30	
DDD.....	24.00	23.40	Deficient
Parathion.....	5.00	3.85	
DDD.....	24.00	23.86	Excessive
Parathion.....	5.00	7.37	Active Ingredient
W. R. Grace and Co. Davison Chemical Div.			
Naco Parathion-TDE 1-10 Dust			
DDD.....	10.00	9.93	Passed
Parathion.....	1.00	1.02	
Maxwell Insecticide Company, Inc.			
Maxwell Tobacco Spray-Plus-(Emulsible Concentrate)			
DDD.....	24.00	24.68	Passed
Parathion.....	6.00	6.56	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Molony Fertilizer Co.			
Lightning Brand 1-10 Tobacco Dust			
DDD.....	10.00	9.72	Deficient
Parathion.....	1.00	0.77	
W. R. Peele Company, Inc.			
Pelco Tobacco Dust contains 10% TDE 1% Parathion			
DDD.....	10.00	9.72	Passed
Parathion.....	1.00	0.95	
Pelco Super Tobacco Spray Emulsion Concentrate			
DDD.....	24.00	24.64	Passed
Parathion.....	6.00	6.21	
DDD.....	24.00	24.75	Passed
Parathion.....	6.00	5.87	
DDD.....	24.00	25.42	Passed
Parathion.....	6.00	6.23	
DDD.....	24.00	25.68	Passed
Parathion.....	6.00	6.29	
DDD.....	24.00	25.06	Passed
Parathion.....	6.00	5.81	
Planters Chemical Corp.			
Planters TDE-Parathion Emulsion Concentrate			
DDD.....	24.20	24.46	Passed
Parathion.....	6.00	6.13	
Taylor Chemical Co.			
Superkill Tobacco Dust No. 1			
DDD.....	10.00	9.79	Passed
Parathion.....	1.00	0.99	
United Cooperatives, Inc. (Registered by Farmers Cooperative Exchange, Inc.)			
Unico Tobacco Bug Blaster			
DDD.....	23.20	25.01	Passed
Parathion.....	5.70	6.31	
DDD.....	23.20	24.45	Passed
Parathion.....	5.70	6.47	
DDD.....	23.20	25.59	Passed
Parathion.....	5.70	6.24	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
DDD.....	23.20	25.26	Passed
Parathion.....	5.70	5.61	
DDD.....	23.20	24.35	Passed
Parathion.....	5.70	5.97	
DDT			
Acme Quality Paints, Inc.			
Acme 5% DDT Dust			
DDT.....	5.00	5.57	Passed
Acme Dura Dust No. 50			
DDT.....	50.00	48.21	Passed
California Chemical Company-Ortho Div.			
Ortho DDT 5 Dust			
DDT.....	5.00	4.75	Passed
Cape Fear Chemicals, Inc.			
Tiger Brand 25% DDT Emulsion Concentrate			
DDT.....	25.00	24.23	Passed
Carolina Chemical Corp.			
5% DDT Dust			
DDT.....	5.00	4.79	Passed
DDT Emulsifiable Concentrate			
DDT.....	23.98	23.16	Passed
Carter Insecticide and Chemical Company, Inc.			
Carolina Brand 25% DDT Emulsion Concentrate			
DDT.....	25.00	23.78	Passed
do.....	25.00	24.06	Passed
Daly-Herring Co.			
Dee Aitch 25% DDT Emulsifiable Concentrate			
DDT.....	25.00	24.05	Passed
do.....	25.00	25.89	Passed
Dee Aitch 50% DDT Wettable Powder			
DDT.....	50.00	48.56	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Faesy and Besthaff, Inc.			
F and B 25% DDT Spray			
DDT.....	24.80	30.48	Not Registered
Farmers Cooperative Exchange, Inc.			
FCX 5% DDT Dust			
DDT.....	5.00	5.21	Passed
FCX 10% DDT Dust			
DDT.....	10.00	10.28	Passed
do.....	10.00	9.57	Passed
do.....	10.00	9.93	Passed
FCX DDT Emulsifiable Concentrate			
DDT.....	24.00	26.10	Passed
do.....	24.00	26.22	Passed
FCX 50% Wettable DDT Powder			
DDT.....	50.00	50.35	Passed
Graham Chemical Company, Inc.			
Red Star 5% DDT Dust			
DDT.....	5.00	5.07	Passed
Red Star Bug Death DDT 25%			
DDT.....	25.00	24.73	Passed
GurMiCo Chemicals, Inc.			
GurMiCo 25% DDT Emulsion			
DDT.....	25.00	24.60	Passed
do.....	25.00	24.09	Passed
Hopkins Agricultural Chemical Co.			
Hopkins 10% DDT Dust			
DDT.....	10.00	9.93	Passed
O. E. Linck Company, Inc.			
Tat Solution (Concentrate) Containing 35% DDT			
DDT.....	35.00	26.66	Deficient
Maxwell Insecticide Company, Inc.			
Maxwell 5% DDT Dust			
DDT.....	5.00	5.00	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Maxwell 10% DDT Dust			
DDT.....	10.00	9.86	Passed
Maxwell 25% DDT Emulsion Concentrate			
DDT.....	25.00	24.65	Passed
Miller Chemical and Fertilizer Corp.			
Miller 5% DDT Dust			
DDT.....	5.00	5.00	Passed
Molony Fertilizer Co.			
Lightning Brand DDT Emulsible Concentrate			
DDT.....	25.00	24.25	Not Registered
Niagara Chemical Div. Food Machinery and Chemical Corp.			
Niagara Niatox 25 Miscible (Contains 25% DDT)			
DDT.....	25.00	24.95	Passed
Olin Mathieson Chemical Corp.			
Mathieson DDT 10% Dust			
DDT.....	10.00	10.43	Passed
Mathieson DDT 2 lb. Emulsifiable			
DDT.....	25.00	24.98	Passed
W. R. Peele Company, Inc.			
Pelco 5% DDT			
DDT.....	5.00	4.93	Passed
Pelco 10% DDT Dust			
DDT.....	10.00	10.00	Passed
Pelco DDT Emulsifiable Concentrate			
DDT.....	23.76	25.07	Passed
do.....	23.76	23.78	Passed
Pelco 50% Wetttable DDT Powder			
DDT.....	50.00	41.42	Deficient

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Rigo Manufacturing Co.			
Kill-Ko 25% DDT Concentrate			
DDT.....	25.00	25.00	Passed
Royster Chemical Co.			
Royster Chem-Pest Chemicals Tobacco, Soybeans "20D" Spray Concentrate			
DDT.....	24.74	25.04	Passed
do.....	24.74	25.62	Passed
Southern Agricultural Insecticides, Inc.			
SA-50 Brand 5% DDT Dust			
DDT.....	5.00	5.36	Passed
do.....	5.00	4.93	Passed
do.....	5.00	5.14	Passed
do.....	5.00	5.50	Passed
SA-50 Brand 10% DDT Dust			
DDT.....	10.00	9.86	Passed
do.....	10.00	10.72	Passed
do.....	10.00	10.72	Passed
do.....	10.00	10.50	Passed
do.....	10.00	10.00	Passed
do.....	10.00	10.07	Passed
do.....	10.00	10.36	Passed
do.....	10.00	9.93	Passed
do.....	10.00	10.79	Passed
do.....	10.00	10.22	Passed
do.....	10.00	10.14	Passed
do.....	10.00	5.71	Deficient
do.....	10.00	8.85	Deficient
Smith-Douglass Company, Inc.			
Smith-Douglass 2 lb. Emulsion Concentrate			
DDT.....	23.80	23.44	Passed
Swift and Co.			
Agricultural Chemical Div.			
Swift's 50% DDT Wettable Powder			
DDT.....	50.00	51.77	Passed
Woolfolk Chemical Works, Ltd.			
Security Brand DDT Concentrate (Emulsible)			
DDT.....	24.40	24.84	Passed
Security Brand Bitoxin Cotton Spray			
DDT.....	33.80	33.48	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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DDT-ALDRIN**Taylor Chemical Co.**

Superkill 2½ % Aldrin-5% DDT Dust without Sulfur

DDT.....	5.00		Passed
Aldrin.....	2.50		
Theoretical chlorine.....	3.95	4.62	

DDT-CAPTAN-KARATHANE-MALATHION**Sears, Roebuck and Co.**

Cross Country Rose Dust

DDT.....	5.00		Deficient
Captan.....	5.00		
Karathane.....	0.75		
Malathion.....	4.00	2.97	
Theoretical chlorine.....	4.27	4.89	
Theoretical nitrogen.....	0.28	0.28	

Swift and Co.**Plant Food Div.**

End-O-Pest for Roses

DDT.....	5.00		Deficient
Captan.....	7.50		
Karathane.....	1.00		
Malathion.....	4.50	3.50	
Theoretical chlorine.....	5.16	5.00	
Theoretical nitrogen.....	0.42	0.71	

DDT-CAPTAN-MALATHION**Acme Quality Paints, Inc.**

Acme Rose Dust

DDT.....	5.00		Excessive Active Ingredient
Captan.....	7.00		
Malathion.....	4.00	5.27	
Theoretical chlorine.....	4.98	5.14	

DDT-COPPER**Chem-Salts, Inc.**

Copoloid 3-12

DDT.....	12.00	11.87	Passed
Copper as metallic.....	3.00	3.08	

Farmers Cooperative Exchange, Inc.

FCX 7-5 Potato and Tomato Dust

DDT.....	5.00	4.82	Passed
Copper as metallic.....	7.00	6.66	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Mike, Inc.			
101 Potato Dust with 5% DDT			
DDT.....	5.00	4.93	Passed
Copper as metallic.....	6.50	6.34	
Southern Agricultural Insecticides, Inc.			
SA-50 Brand Potato Dust with 5% DDT			
DDT.....	5.00	5.14	Passed
Copper as metallic.....	6.50	6.41	
Taylor Chemical Co.			
Superkill Tomato Dust No. 10			
DDT.....	10.00	9.86	Passed
Copper as metallic.....	6.00	5.82	
DDT.....	10.00	10.07	Passed
Copper as metallic.....	6.00	5.80	
DDT-COPPER-PARATHION-SULFUR			
Southern Agricultural Insecticides, Inc.			
SA-50 Brand 1 1/2 % Parathion Dust with 5% DDT			
DDT.....	5.00	5.50	Deficient
Copper as metallic.....	3.00	2.89	
Parathion.....	1.50	1.13	
Sulfur.....	25.00	24.50	
DDT-COPPER-SULFUR			
Armour Agricultural Chemical Co.			
Armagard-Copper-Sulfur-DDT Dust for Peanuts			
DDT.....	5.00	4.93	Passed
Copper as metallic.....	4.00	3.89	
Sulfur.....	75.00	71.89	
DDT.....	5.00	5.11	Passed
Copper as metallic.....	4.00	3.80	
Sulfur.....	75.00	74.01	
Daly-Herring Co.			
Dee Aitch 4% Metallic Copper-5%-DDT-74% Sulfur			
DDT.....	5.00	4.86	Deficient
Copper as metallic.....	4.00	3.21	
Sulfur.....	74.00	73.88	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Dee Aitch 4% Metallic Copper-5% DDT-74% Sulfur (continued)			
DDT.....	5.00	4.75	Passed
Copper as metallic.....	4.00	3.80	
Sulfur.....	74.00	74.82	
DDT.....	5.00	4.93	Passed
Copper as metallic.....	4.00	4.10	
Sulfur.....	74.00	76.51	

Farmers Cooperative Exchange, Inc.

FCX Copper Sulfur Peanut Dust with 5% DDT

DDT.....	5.00	4.89	Deficient
Copper as metallic.....	4.00	3.71	
Sulfur.....	76.50	75.69	

Howerton Gowen Chemicals, Inc.

Gowen's Copper Sulfur 5% DDT Dust

DDT.....	5.00	4.71	Deficient
Copper as metallic.....	4.00	3.76	
Sulfur.....	80.00	80.93	

Planters Chemical Corp.

Planters Copper-Sulfur-DDT Dust for Peanuts

DDT.....	5.00	5.00	Passed
Copper as metallic.....	4.00	3.85	
Sulfur.....	75.00	73.50	
DDT.....	5.00	4.96	Passed
Copper as metallic.....	4.00	3.91	
Sulfur.....	75.00	75.75	

Royster Chemical Co.

Royster's Chem-Pest Peanut "5480" Dust

DDT.....	5.00	5.85	Passed
Copper as metallic.....	4.00	3.80	
Sulfur.....	80.00	77.37	

DDT-DDD**Planters Chemical Corp.**

Planters TDE-DDT Emulsion Concentrate

DDT.....	11.90		Passed
DDD.....	11.90		
Theoretical chlorine.....	11.22	10.87	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
DDT-DDD-PARATHION			
Cape Fear Chemicals, Inc.			
Tiger Brand Thrapple Quick 1-5-5 Tobacco Dust			
DDT.....	5.00		Passed
DDD.....	5.00		
Parathion.....	1.00	0.96	
Theoretical chlorine.....	4.72	4.54	
Maxwell Insecticide Company, Inc.			
Maxwell 5-5-1 Tobacco Dust			
DDT.....	5.00		Passed
DDD.....	5.00		
Parathion.....	1.00	0.96	
Theoretical chlorine.....	4.72	4.51	
W. R. Peele Company, Inc.			
Pelco 5-5-1 Tobacco Dust DDT-TDE-Parathion			
DDT.....	5.00		Passed
DDD.....	5.00		
Parathion.....	1.00	1.13	
Theoretical chlorine.....	4.72	5.28	
DDT-ENDRIN			
Armour Agricultural Chemical Co.			
Armagard Endrin-DDT Emulsifiable Concentrate			
DDT.....	12.20		Passed
Endrin.....	11.90		
Theoretical chlorine.....	12.25	12.05	
California Chemical Company-Ortho Div.			
Ortho Endrin-DDT 1 - 1 Emulsive			
DDT.....	12.20		Deficient
Endrin.....	12.20		
Theoretical chlorine.....	12.91	11.88	
DDT.....	12.20		Passed
Endrin.....	12.20		
Theoretical chlorine.....	12.91	13.30	
DDT.....	12.20		Passed
Endrin.....	12.20		
Theoretical chlorine.....	12.91	13.59	
Carolina Chemical Corp.			
Tobacco Special			
DDT.....	16.50		Passed
Endrin.....	6.50		
Theoretical chlorine.....	11.88	12.02	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Carter Insecticide and Chemical Company, Inc.			
Carolina Brand EN-D Tobacco Dust			
DDT.....	5.00		Passed
Endrin.....	1.00		
Theoretical chlorine.....	3.06	3.17	
Carolina Brand EN-D Tobacco Poison			
DDT.....	16.50		Passed
Endrin.....	6.50		
Theoretical chlorine.....	11.88	11.86	
DDT.....	16.50		Passed
Endrin.....	6.50		
Theoretical chlorine.....	11.88	11.92	
DDT.....	16.50		Passed
Endrin.....	6.50		
Theoretical chlorine.....	11.88	11.38	
DDT.....	16.50		Passed
Endrin.....	6.50		
Theoretical chlorine.....	11.88	11.43	
DDT.....	16.50		Passed
Endrin.....	6.50		
Theoretical chlorine.....	11.88	12.26	
DDT.....	16.50		Passed
Endrin.....	6.50		
Theoretical chlorine.....	11.88	11.88	
Coastal Chemical Corp.			
Worm and Beetle Spray Emulsible Concentrate			
DDT.....	16.50		Passed
Endrin.....	6.50		
Theoretical chlorine.....	11.88	12.98	
Daly-Herring Co.			
Bacco Beetle Spray Emulsifiable Concentrate			
DDT.....	16.50		Passed
Endrin.....	6.50		
Theoretical chlorine.....	11.88	12.48	
DDT.....	16.50		Passed
Endrin.....	6.50		
Theoretical chlorine.....	11.88	12.53	
Farmers Cooperative Exchange, Inc.			
FCX Tobacco Special			
DDT.....	5.00		Passed
Endrin.....	1.50		
Theoretical chlorine.....	3.33	3.79	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
FCX "513" Tobacco and Cotton Spray			
DDT.....	15.80		Passed
Endrin.....	6.40		
Theoretical chlorine.....	11.47	12.53	
DDT.....	15.80		Passed
Endrin.....	6.40		
Theoretical chlorine.....	11.47	11.90	
DDT.....	15.80		Passed
Endrin.....	6.40		
Theoretical chlorine.....	11.47	11.93	
Graham Chemical Co.			
Graham's Red Star End-DT			
DDT.....	16.50		Passed
Endrin.....	6.50		
Theoretical chlorine.....	11.88	12.18	
GurMiCo Chemicals, Inc.			
GurMiCo Liquid Tobacco Control			
DDT.....	16.50		Passed
Endrin.....	6.50		
Theoretical chlorine.....	11.88	12.80	
DDT.....	16.50		Passed
Endrin.....	6.50		
Theoretical chlorine.....	11.88	12.79	
GurMiCo Liquid Insect Control for Cotton and Tobacco			
DDT.....	25.00		Passed
Endrin.....	11.56		
Theoretical chlorine.....	18.96	20.24	
DDT.....	25.00		Passed
Endrin.....	11.56		
Theoretical chlorine.....	18.96	19.76	
Maxwell Insecticide Company, Inc.			
Maxwell Tobacco Spray No. 2			
DDT.....	16.50		Passed
Endrin.....	6.50		
Theoretical chlorine.....	11.88	12.51	
DDT.....	16.50		Passed
Endrin.....	6.50		
Theoretical chlorine.....	11.88	12.79	
DDT.....	16.50		Passed
Endrin.....	6.50		
Theoretical chlorine.....	11.88	12.81	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Maxwell Tobacco Spray No. 2 (Continued)			
DDT.....	16.50		Passed
Endrin.....	6.50		
Theoretical chlorine.....	11.88	13.00	
DDT.....	16.50		Passed
Endrin.....	6.50		
Theoretical chlorine.....	11.88	12.60	
DDT.....	16.50		Passed
Endrin.....	6.50		
Theoretical chlorine.....	11.88	12.58	
DDT.....	16.50		Passed
Endrin.....	6.50		
Theoretical chlorine.....	11.88	12.75	
Niagara Chemical Div.			
Food Machinery and Chemical Corp.			
Niagara DDT 1 Endrin - Emulsifiable			
DDT.....	11.95		Passed
Endrin.....	11.95		
Theoretical chlorine.....	12.65	12.89	
Olin Mathieson Chemical Corp.			
Mathieson End-DT Emulsifiable			
DDT.....	12.10		Passed
Endrin.....	12.10		
Theoretical chlorine.....	12.81	12.23	
DDT.....	12.10		Passed
Endrin.....	12.10		
Theoretical chlorine.....	12.81	13.41	
DDT.....	12.10		Passed
Endrin.....	12.10		
Theoretical chlorine.....	12.81	12.76	
DDT.....	12.10		Passed
Endrin.....	12.10		
Theoretical chlorine.....	12.81	13.23	
W. R. Peele Company, Inc.			
Pelco 55 Tobacco Spray Emulsible Concentrate			
DDT.....	16.50		Passed
Endrin.....	6.50		
Theoretical chlorine.....	11.88	11.89	
DDT.....	16.50		Passed
Endrin.....	6.50		
Theoretical chlorine.....	11.88	11.52	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Pelco Endrin and DDT Emulsion			
DDT.....	11.99		Passed
Endrin.....	12.20		
Theoretical chlorine.....	12.81	12.58	
DDT.....	11.99		Passed
Endrin.....	12.20		
Theoretical chlorine.....	12.81	12.88	
Planters Chemical Corp.			
Planters Endrin-DDT Emulsifiable Concentrate			
DDT.....	12.20		Passed
Endrin.....	11.90		
Theoretical chlorine.....	12.25	12.26	
DDT.....	12.20		Passed
Endrin.....	11.90		
Theoretical chlorine.....	12.25	11.98	
DDT.....	12.20		Passed
Endrin.....	11.90		
Theoretical chlorine.....	12.25	12.13	
DDT.....	12.20		Passed
Endrin.....	11.90		
Theoretical chlorine.....	12.25	12.23	
Royster Chemical Co.			
Royster Tobacco "102" Ready to Use Dust			
DDT.....	10.00		Passed
Endrin.....	2.00		
Theoretical chlorine.....	6.12	6.60	
Royster Chem-Pest Chemicals "208" Tobacco Cotton Spray Concentrate			
DDT.....	23.23		Passed
Endrin.....	9.58		
Theoretical chlorine.....	16.97	16.90	
DDT.....	23.23		Passed
Endrin.....	9.58		
Theoretical chlorine.....	16.97	17.01	
Southern Agricultural Chemicals, Inc.			
Royal Brand Endrin-DDT 10-20 Emulsible Concentrate			
DDT.....	23.00		Passed
Endrin.....	11.00		
Theoretical chlorine.....	17.94	17.76	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Smith-Douglass Company, Inc.			
Smith-Douglass Endrin DDT Emulsion Concentrate			
DDT.....	12.20		Passed
Endrin.....	11.90		
Theoretical chlorine.....	12.25	12.06	
Swift and Co. Agricultural Chemical Div.			
Swift's Gold Bear DDT-Endrin DE2-.8E			
DDT.....	22.44		Passed
Endrin.....	8.98		
Theoretical chlorine.....	16.24	16.38	
Taylor Chemical Co.			
Superkill Endrin DDT 1-1 Emulsion			
DDT.....	12.20		Passed
Endrin.....	12.20		
Theoretical chlorine.....	12.91	12.81	
DDT.....	12.20		Passed
Endrin.....	12.20		
Theoretical chlorine.....	12.91	12.96	
DDT.....	12.20		Passed
Endrin.....	12.20		
Theoretical chlorine.....	12.91	13.04	
United Cooperatives, Inc. (Registered by Farmers Cooperative Exchange, Inc.)			
Unico "513" Tobacco and Cotton Spray			
DDT.....	15.80		Passed
Endrin.....	6.40		
Theoretical chlorine.....	11.47	12.20	
DDT-ENDRIN-METHYL PARATHION			
Atlas Agricultural Chemicals, Inc.			
Atlas Missile "628" Super Spray Tobacco and Cotton			
DDT.....	23.00		Passed
Endrin.....	6.90		
Methyl parathion.....	9.20	9.13	
Theoretical chlorine.....	15.35	15.93	
Carolina Chemical Corp.			
.8 Endrin-2 DDT-1 Methyl Parathion Cotton Tobacco			
DDT.....	22.67		Deficient
Endrin.....	9.07		
Methyl parathion.....	11.33	10.80	
Theoretical chlorine.....	16.41	15.06	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Planters Chemical Corp.			
Planters Endrin-Methyl Parathion-DDT Emulsion Concentrate			
DDT.....	22.70		Passed
Endrin.....	9.10		
Methyl parathion.....	11.40	11.87	
Theoretical chlorine.....	16.43	15.79	
DDT.....	22.70		Passed
Endrin.....	9.10		
Methyl parathion.....	11.40	11.33	
Theoretical chlorine.....	16.43	15.93	
DDT.....	22.70		Passed
Endrin.....	9.10		
Methyl parathion.....	11.40	11.29	
Theoretical chlorine.....	16.43	16.21	
DDT.....	22.70		Passed
Endrin.....	9.10		
Methyl parathion.....	11.40	11.57	
Theoretical chlorine.....	16.43	16.16	
DDT.....	22.70		Deficient
Endrin.....	9.10		
Methyl parathion.....	11.40	10.19	
Theoretical chlorine.....	16.43	16.06	
Southern Agricultural Chemicals, Inc.			
Royal Brand Endrin-Methyl Parathion DDT Spray for Cotton—Tobacco			
DDT.....	22.40		Deficient
Endrin.....	9.00		
Methyl parathion.....	11.20	10.32	
Theoretical chlorine.....	16.23	18.21	
DDT.....	22.40		Passed
Endrin.....	9.00		
Methyl parathion.....	11.20	11.00	
Theoretical chlorine.....	16.23	15.92	
Taylor Chemical Co.			
Triple-Kill Emulsifiable Concentrate			
DDT.....	22.93		Passed
Endrin.....	6.88		
Methyl parathion.....	9.17	9.87	
Theoretical chlorine.....	15.31	15.81	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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DDT-FERBAM**California Spray-Chemical Corp.**
(Now: California Chemical Company-Ortho Div.)

Ortho Ferbam-DDT 11.4-5 Dust

DDT.....	5.00	4.96	Deficient
Ferbam.....	11.40	9.49	

Farmers Cooperative Exchange, Inc.

FCX Ferbam No. 10-5% DDT Dust

DDT.....	5.00	4.96	Passed
Ferbam.....	11.40	11.63	

Maxwell Insecticide Company, Inc.

Maxwell Ferbam-DDT Dust

DDT.....	3.00	3.19	Passed
Ferbam.....	11.40	11.46	

Olin Mathieson Chemical Corp.

Mathieson Ferbam-DDT Dust

DDT.....	3.00	3.07	Passed
Ferbam.....	11.40	12.13	

W. R. Peele Company, Inc.

Pelco 15% Fermate 3% DDT Dust

DDT.....	3.00	2.97	Passed
Ferbam.....	11.40	11.63	

Taylor Chemical Co.

Superskill Fermate-DDT Tobacco Bed Dust

DDT.....	3.00	3.15	Passed
Ferbam.....	11.40	11.38	

DDT-FERBAM-SULFUR**Farmers Cooperative Exchange, Inc.**

FCX Rose Dust

DDT.....	5.00	5.04	Passed
Ferbam.....	7.00	7.50	
Sulfur.....	70.00	71.40	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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DDT-HEPTACHLOR**Taylor Chemical Co.**

Superkill 2½ % Heptachlor Cotton Dust (with 5% DDT)

DDT.....	5.00		Passed
Heptachlor (Technical).....	3.47		
Theoretical chlorine.....	4.81	5.71	

Superkill 2½ % Heptachlor Cotton Dust (with 10% DDT)

DDT.....	10.00		Passed
Heptachlor (Technical).....	3.47		
Theoretical chlorine.....	7.31	7.95	

DDT-LETHANE 384**Boyle-Midway, Inc.**

Black Flag Insect Spray

DDT.....	5.00	4.96	Passed
Lethane 384.....	1.00	Present	
DDT.....	5.00	5.22	Passed
Lethane 384.....	1.00	Present	
DDT.....	5.00	5.28	Passed
Lethane 384.....	1.00	Present	
DDT.....	5.00	5.34	Passed
Lethane 384.....	1.00	Present	

DDT-LETHANE 384-PIPERONYL BUTOXIDE-PYRETHRINS**Penola Oil Co.**

(Now: Humble Oil and Refining Co.)

Flit Aerosol Fly and Mosquito Killer

DDT.....	2.00	2.03	Passed
Lethane 384.....	1.00	Present	
Piperonyl butoxide.....	0.80	0.85	
Pyrethrins.....	0.10	0.12	
DDT.....	2.00	1.99	Passed
Lethane 384.....	1.00	Present	
Piperonyl butoxide.....	0.80	0.85	
Pyrethrins.....	0.10	0.12	

DDT-MANEB**Southern Agricultural Insecticides, Inc.**

SA-50 Brand Manzate Dust with 5% DDT

DDT.....	5.00	5.04	Passed
Maneb.....	5.00	4.90	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
DDT-METHYL PARATHION			
California Chemical Company-Ortho Div.			
Ortho Methyl Parathion-DDT 2.5-5 Dust			
DDT.....	5.00	5.07	Passed
Methyl parathion.....	2.50	2.98	
Ortho Methyl Parathion-DDT 2.5-10 Dust			
DDT.....	10.00	10.00	Deficient
Methyl parathion.....	2.50	2.04	
DDT.....	10.00	9.07	Deficient
Methyl parathion.....	2.50	2.86	
DDT.....	10.00	8.93	Deficient
Methyl parathion.....	2.50	2.20	
Carolina Chemicals, Inc.			
Flight Brand Methyl Parathion-DDT Dust			
DDT.....	10.00	9.86	Passed
Methyl parathion.....	2.50	2.68	
Daly-Herring Co.			
Dee Aitch Cot'n Spray Emulsifiable Concentrate			
DDT.....	22.80	22.34	Passed
Methyl parathion.....	11.40	11.08	
Miller Chemical and Fertilizer Corp.			
Miller 2½ % Methyl Parathion 5 % DDT Dust			
DDT.....	5.00	4.82	Passed
Methyl parathion.....	2.50	2.84	
Miller 2½ % Methyl Parathion 10 % DDT Dust			
DDT.....	10.00	9.64	Passed
Methyl parathion.....	2.50	2.37	
Olin Mathieson Chemical Corp.			
Mathieson Methyl Parathion DDT Cotton Dust 2.5-10			
DDT.....	10.00	11.71	Passed
Methyl parathion.....	2.50	2.53	
Mathieson DDT Methyl Parathion Emulsifiable			
DDT.....	23.60	23.42	Passed
Methyl parathion.....	11.80	12.14	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Mathieson Methyl Parathion-DDT 1.5 lb.-3 lb. Emulsifiable			
DDT.....	32.90	32.61	Passed
Methyl parathion.....	16.40	15.98	
Planters Chemical Corp.			
Planters Methyl Parathion-DDT Cotton Dust			
DDT.....	10.00	10.00	Passed
Methyl parathion.....	2.50	2.41	
Southern Agricultural Chemicals, Inc.			
Royal Brand 2½-10 MP Cotton Dust			
DDT.....	10.00	10.57	Passed
Methyl parathion.....	2.50	2.37	
Swift and Co. Agricultural Chemical Div.			
Gold Bear YMD 2.57D			
DDT.....	7.00	6.80	Passed
Methyl parathion.....	2.50	2.41	
Taylor Chemical Co.			
Superkill 2½-P-7 Dust			
DDT.....	7.00	7.10	Deficient
Methyl parathion.....	2.50	2.33	
Superkill 2½-P-10 Dust			
DDT.....	10.00	10.72	Deficient
Methyl parathion.....	2.50	2.36	
Woolfolk Chemical Works, Ltd.			
Security Brand 2½ % Methyl Parathion 5% DDT Cotton Dust			
DDT.....	5.00	5.07	Deficient
Methyl parathion.....	2.50	2.08	
Security Brand 2½ % Methyl Parathion 10% DDT Cotton Dust			
DDT.....	10.00	10.00	Passed
Methyl parathion.....	2.50	2.43	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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DDT-METHYL PARATHION-STROBANE**Olin Mathieson Chemical Corp.**

Mathieson Magnum Super

DDT.....	20.10		Passed
Methyl parathion.....	7.50	7.54	
Strobane.....	30.20		
Theoretical chlorine.....	29.98	30.39	

DDT-METHYL TRITHION**Olin Mathieson Chemical Corp.**

Mathieson Super X Super Cotton Dust

DDT.....	7.00		Passed
Methyl trithion.....	3.00		
Theoretical chlorine.....	3.84	4.71	

Stauffer Chemical Co.

Stauffers DDT-Methyl Trithion 5-3 Dust

DDT.....	5.00		Passed
Methyl trithion.....	3.00		
Theoretical chlorine.....	2.84	3.04	
DDT.....	5.00		Passed
Methyl trithion.....	3.00		
Theoretical chlorine.....	2.84	2.96	

Stauffer DDT-Methyl Trithion 7-3 Dust

DDT.....	7.00		Passed
Methyl trithion.....	3.00		
Theoretical chlorine.....	3.84	4.11	

Methyl Trithion with DDT 2-2E Emulsifiable Liquid

DDT.....	22.10		Passed
Methyl trithion.....	22.10		
Theoretical chlorine.....	13.53	13.60	

Taylor Chemical Co.

Taylor Megathion 3-7 Dust

DDT.....	7.00		Passed
Methyl trithion.....	3.00		
Theoretical chlorine.....	3.84	3.94	
DDT.....	7.00		Passed
Methyl trithion.....	3.00		
Theoretical chlorine.....	3.84	3.94	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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Woolfolk Chemical Works, Ltd.**Security Brand Tri-Me 2½-7**

DDT.....	7.00		Passed
Methyl trithion.....	2.50		
Theoretical chlorine.....	3.78	3.86	

Security Brand Tri-Me 2½-10

DDT.....	10.00		Passed
Methyl trithion.....	2.50		
Theoretical chlorine.....	5.28	5.19	

DDT-PARATHION-SULFUR**California Spray-Chemical Corp.****(Now: California Chemical Company-Ortho Div.)****Ortho DDT-Parathion-Sulfur 5-1.5-25 Dust**

DDT.....	5.00	5.18	Passed
Parathion.....	1.50	1.79	
Sulfur.....	25.00	25.35	

Miller Chemical and Fertilizer Corp.**Miller 5% DDT 1% Parathion 50% Sulfur Dust**

DDT.....	5.00	5.18	Deficient
Parathion.....	1.00	0.88	
Sulfur.....	50.00	50.97	

Miller 1½% Parathion 5% DDT 50% Sulfur Dust

DDT.....	5.00	4.96	Passed
Parathion.....	1.50	1.64	
Sulfur.....	50.00	51.21	
DDT.....	5.00	5.07	Passed
Parathion.....	1.50	1.43	
Sulfur.....	50.00	50.07	

Southern Agricultural Insecticides, Inc.**SA-50 Brand 1½% Parathion Dust with 5% DDT**

DDT.....	5.00	5.11	Passed
Parathion.....	1.50	1.57	
Sulfur.....	25.00	25.39	
DDT.....	5.00	5.07	Passed
Parathion.....	1.50	1.60	
Sulfur.....	25.00	25.97	
DDT.....	5.00	5.36	Passed
Parathion.....	1.50	1.58	
Sulfur.....	25.00	26.26	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
SA-50 Brand 1½ % Parathion Dust with 5 % DDT (Continued)			
DDT.....	5.00	5.50	Passed
Parathion.....	1.50	1.44	
Sulfur.....	25.00	27.47	
DDT.....	5.00	5.36	Passed
Parathion.....	1.50	1.66	
Sulfur.....	25.00	26.92	
DDT.....	5.00	5.25	Passed
Parathion.....	1.50	1.63	
Sulfur.....	25.00	25.63	
DDT.....	5.00	5.00	Passed
Parathion.....	1.50	1.59	
Sulfur.....	25.00	25.69	

DDT-PIPERONYL BUTOXIDE-PYRETHRINS**A-Penn Oil Co.****Kilzum Aerosol Insect Spray**

DDT.....	2.00	2.00	Passed
Piperonyl butoxide.....	0.50	0.48	
Pyrethrins.....	0.20	0.24	

Kilzum 2 in 1 Insect Spray

DDT.....	5.00	4.80	Passed
Piperonyl butoxide.....	0.052	0.067	
Pyrethrins.....	0.021	0.040	

Gulf Oil Corp.**Gulf House Garden Insect Killer**

DDT.....	2.00	1.94	Passed
Piperonyl butoxide.....	1.00	1.06	
Pyrethrins.....	0.25	0.26	

Rigo Manufacturing Co.**Kill-Ko Super Strength Plus 5 % DDT**

DDT.....	5.00	4.83	Passed
Piperonyl butoxide.....	0.30	0.35	
Pyrethrins.....	0.03	0.05	

DDT-SULFUR**Planters Chemical Corp.****Planters 5 % DDT-Sulfur Dust**

DDT.....	5.00	5.07	Passed
Sulfur.....	75.00	74.89	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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DDT-ZINEB**W. R. Grace and Co.
Davison Chemical Div.**

Naco 6% Dithane Z-78 and 10% DDT Dust

DDT.....	10.00	11.42	Deficient
Zineb.....	3.90	2.67	
DDT.....	10.00	10.50	Excessive
Zineb.....	3.90	4.93	Active Ingredient

Maxwell Insecticide Company, Inc.

Maxwell Dithane-DDT Dust

DDT.....	3.00	3.30	Deficient
Zineb.....	6.50	5.69	
DDT.....	3.00	3.19	Passed
Zineb.....	6.50	6.65	

W. R. Peele Company, Inc.

Pelco Dithane-DDT Dust

DDT.....	3.00	3.75	Passed
Zineb.....	6.50	6.32	

DDVP**Agricultural Specialties****Starbar Div.**

(Now: Thuron Industries, Inc.)

Starbar Strike Instant Fly Syrup

DDVP.....	0.20	0.19	Passed
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American Scientific Laboratories, Inc.

4-Way Banafly Concentrate

DDVP.....	3.00	2.96	Not Registered
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Fly-Cord, Inc.

Flyco Brand Wet or Dry Fly Bait

DDVP.....	0.50	0.81	Passed
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Real-Kill Products**Division of Cook Chemical Co.**

Real-Kill Insect Spray

DDVP.....	0.50	0.48	Passed
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Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Rigo Manufacturing Co.			
Kill-Ko Fly and Mosquito Spray with DDVP			
DDVP.....	0.50	0.53	Passed
Thuron Industries, Inc. Starbar Div.			
Starbar Vaporette Bar			
DDVP.....	20.00	19.57	Not Registered
DDVP-PERTHANE			
Agricultural Specialties Starbar Div. (Now: Thuron Industries, Inc.)			
Malrin 576 Fly Killer			
DDVP.....	-----	-----	Not Registered Misbranded
Perthane.....	-----	-----	
DDVP-PIPERONYL BUTOXIDE-PYRETHRINS			
United Cooperatives, Inc. (Registered by Farmers Cooperative Exchange, Inc.)			
Unico Py-Vona Stock Fly Spray			
DDVP.....	0.20	0.23	Passed
Piperonyl butoxide.....	0.25	0.33	
Pyrethrins.....	0.03	0.05	
DIELDRIN			
California Chemical Company-Ortho Div.			
Ortho Dieldrin 10 Granular			
Dieldrin.....	10.00	11.00	Passed
Southern Agricultural Insecticides, Inc.			
SA-50 Brand Lawn Diel 2 ½ % Dieldrin Granules			
Dieldrin.....	2.50	2.86	Passed
do.....	2.50	3.30	Excessive Active Ingredient
DIELDRIN-DDVP			
Boyle-Midway, Inc.			
Black Flag Ant and Roach Killer with DDVP			
Dieldrin.....	0.30		Passed
DDVP.....	0.20		
Theoretical chlorine.....	0.23	0.31	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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Real-Kill Products
Division of Cook Chemical Co.

Push Button Real-Kill Bug Killer

Dieldrin.....	0.50		Passed
DDVP.....	0.50		
Theoretical chlorine.....	0.44	0.34	

Real-Kill Bug Killer

Dieldrin.....	0.50		Passed
DDVP.....	0.50		
Theoretical chlorine.....	0.44	0.62	

DIELDRIN-PIPERONYL BUTOXIDE-PYRETHRINS

S. C. Johnson and Son, Inc.

Raid Liquid Roach and Ant Killer

Dieldrin.....	0.50	0.50	Passed
Piperonyl butoxide.....	0.09	0.08	
Pyrethrins.....	0.045	0.06	
Dieldrin.....	0.50	0.50	Passed
Piperonyl butoxide.....	0.09	0.07	
Pyrethrins.....	0.045	0.06	
Dieldrin.....	0.50	0.50	Passed
Piperonyl butoxide.....	0.09	0.07	
Pyrethrins.....	0.045	0.06	
Dieldrin.....	0.50	0.50	Passed
Piperonyl butoxide.....	0.09	0.07	
Pyrethrins.....	0.045	0.06	

DIELDRIN-SULFUR

Taylor Chemical Co.

Superkill Dieldrin-Sulphur Peach Spray

Dieldrin.....	3.85	4.15	Passed
Sulfur.....	86.76	87.82	

DIELDRIN-ZINEB

W. R. Grace and Co.
Davison Chemical Div.

Naco Dieldrin-Dithane 1 1/2-8 Dust

Dieldrin.....	1.50	1.46	Passed
Zineb.....	6.00	6.30	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
ENDRIN			
Atlas Agricultural Chemicals, Inc.			
Atlas 1.6 Endrin Emulsifiable Concentrate			
Endrin.....	19.50	19.20	Not Registered
California Chemical Company-Ortho Div.			
Ortho Endrin 1.6 Emulsive			
Endrin.....	18.60	18.95	Passed
do.....	18.60	19.75	Passed
Cape Fear Chemicals, Inc.			
Tiger Brand Endrin Emulsifiable Concentrate			
Endrin.....	19.50	18.53	Passed
Carter Insecticide and Chemical Company, Inc.			
Carolina Brand Endrin Emulsible Concentrate			
Endrin.....	19.50	19.20	Passed
do.....	19.50	19.61	Passed
do.....	19.50	18.64	Passed
do.....	19.50	19.93	Passed
Daly-Herring Co.			
Dee Aitch Endrin Emulsible Concentrate			
Endrin.....	18.90	20.23	Passed
Dee Aitch Endrin Emulsible Concentrate			
Endrin.....	19.50	21.58	Passed
Farmers Cooperative Exchange, Inc.			
FCX Endrin Emulsifiable Concentrate			
Endrin.....	18.90	19.61	Passed
do.....	18.90	19.70	Passed
do.....	18.90	19.67	Passed
do.....	18.90	19.51	Passed
do.....	18.90	20.03	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Graham Chemical Co.			
Graham's Red Star Endrin Emulsifiable Concentrate			
Endrin.....	19.50	19.30	Passed
GurMiCo Chemicals, Inc.			
GurMiCo Endrin Emulsion			
Endrin.....	18.50	20.11	Passed
do.....	18.50	21.01	Passed
Hopkins Agricultural Chemical Co.			
Hopkins Green Turf Insecticide			
Endrin.....	5.00	5.28	Passed
Maxwell Insecticide Company, Inc.			
Maxwell 1% Endrin Dust			
Endrin.....	1.00	1.47	Passed
Maxwell 1½ % Endrin Dust			
Endrin.....	1.50	1.63	Passed
Maxwell Endrin Emulsifiable Concentrate			
Endrin.....	19.50	20.38	Passed
do.....	19.50	21.13	Passed
do.....	19.50	20.82	Passed
do.....	19.50	20.79	Passed
do.....	19.50	21.16	Passed
Molony Fertilizer Co.			
Lightning Brand Endrin Emulsible Concentrate			
Endrin.....	19.50	19.83	Not Registered
Olin Mathieson Chemical Corp.			
Mathieson Endrin 1.6 lb. Emulsifiable			
Endrin.....	19.80	20.94	Passed
do.....	19.80	23.89	Passed
do.....	19.80	20.59	Passed
W. R. Peele Company, Inc.			
Pelco 1½ % Endrin Dust			
Endrin.....	1.50	1.48	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Pelco Endrin Emulsifiable Concentrate			
Endrin.....	19.50	20.06	Passed
do.....	19.50	19.21	Passed
do.....	19.50	20.27	Passed
do.....	19.50	19.53	Passed

Planters Chemical Corp.

Planters Endrin Emulsible Concentrate

Endrin.....	19.50	18.58	Passed
do.....	19.50	19.26	Passed

Smith-Douglass Company, Inc.

Smith-Douglass 1½ % Endrin Dust

Endrin.....	1.50	1.59	Passed
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Smith-Douglass Endrin Emulsion Concentrate

Endrin.....	19.50	19.51	Passed
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Southern Agricultural Chemicals, Inc.

Royal Brand 1½ % Endrin Dust

Endrin.....	1.50	1.48	Passed
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Royal Brand Endrin Emulsion Concentrate

Endrin.....	19.50	21.00	Passed
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**Swift and Co.
Agricultural Chemical Div.**

Swift's Gold Bear EI.6E Endrin

Endrin.....	19.00	20.00	Passed
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Taylor Chemical Co.

Superkill 2% Endrin Dust

Endrin.....	2.00	2.22	Passed
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Superkill Endrin Emulsifiable Concentrate

Endrin.....	19.50	19.80	Passed
do.....	19.50	20.57	Passed
do.....	19.50	19.74	Passed

ENDRIN-METHYL PARATHION**Atlas Agricultural Chemicals, Inc.**

Atlas Endrin-Methyl Parathion Emulsion Concentrate

Endrin.....	18.30	19.56	Not
Methyl parathion.....	18.30	20.20	Registered

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
ENDRIN-PARATHION			
Southern Agricultural Insecticides, Inc.			
SA-50 Brand Dust containing 1½ % Endrin 1% Parathion			
Endrin.....	1.50	1.45	Passed
Parathion.....	1.00	1.11	
FERBAM			
Farmers Cooperative Exchange, Inc.			
FCX Ferbam No. 10 Dust			
Ferbam.....	11.40	11.30	Passed
Maxwell Insecticide Company, Inc.			
Maxwell 15 % Fermate Dust			
Ferbam.....	11.40	10.88	Passed
Olin Mathieson Chemical Corp.			
Mathieson Ferbam Dust			
Ferbam.....	11.40	11.91	Passed
W. R. Peele Company, Inc.			
Pelco 15 % Fermate Dust			
Ferbam.....	11.40	11.58	Passed
Smith-Douglass Company, Inc.			
Smith-Douglass Fermate Dust			
Ferbam.....	11.40	10.48	Deficient
FLUORINE COMPOUNDS			
SODIUM FLUORIDE			
Edgar A. Murray Co.			
Division of Fairfax Biological Lab.			
Roach Doom			
Sodium fluoride.....	90.00	98.81	Passed
SODIUM FLUORIDE-PIPERONYL BUTOXIDE-PYRETHRINS			
Oakwood Medical Center, Inc.			
R. D. Roach Powder			
Sodium fluoride.....	58.00	58.02	Passed
Piperonyl butoxide.....	1.50	1.19	
Pyrethrins.....	0.15	0.22	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Rigo Manufacturing Co.			
Kill-Ko Roach Powder			
Sodium fluoride.....	58.00	60.54	Passed
Piperonyl butoxide.....	1.50	1.94	
Pyrethrins.....	0.15	0.18	
S. C. Wells and Company, Inc.			
Rough on Bugs			
Sodium fluoride.....	58.00	57.20	Passed
Piperonyl butoxide.....	1.50	1.70	
Pyrethrins.....	0.15	0.18	
SODIUM FLUORIDE-SODIUM FLUOSILICATE- PYRETHRINS			
Wonder Products Co.			
Wonder Roach Powder			
Sodium fluoride.....	47.50		Passed
Sodium fluosilicate.....	1.00		
Pyrethrins.....	0.25	0.28	
Theoretical fluorine.....	22.10	21.50	
SODIUM FLUOSILICATE-ROTENONE-SULFUR			
Carbola Chemical Company, Inc.			
Carbola Louse Killer			
Sodium fluosilicate.....	10.00	8.67	Deficient
Rotenone.....	0.50	0.32	
Sulfur.....	15.00	15.80	
Sodium fluosilicate.....	10.00	8.29	Deficient
Rotenone.....	0.50	0.33	
Sulfur.....	15.00	14.65	
FUMARIN			
Kent Exterminating Co.			
Kent Rat and Mouse Bait with Fumarin			
Fumarin.....	0.025	0.029	Passed
Oakwood Medical Center, Inc.			
R.D. Rat Kill			
Fumarin.....	0.025	0.030	Passed
Rigo Manufacturing Co.			
Kill-Ko Rat Bait			
Fumarin.....	0.025	0.028	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
HEPTACHLOR			
Farmers Cooperative Exchange, Inc.			
Unico 2½ % Heptachlor Granular			
Heptachlor (Technical).....	3.47	4.26	Passed
do.....	3.47	4.25	Passed
do.....	3.47	4.74	Excessive Active Ingredient
do.....	3.47	2.00	Deficient
FCX Heptachlor Emulsifiable Concentrate			
Heptachlor (Technical).....	32.20	31.54	Not Registered
W. R. Grace and Co. Davison Chemical Div.			
Naco 2½ % Heptachlor Granules			
Heptachlor (Technical).....	3.47	3.15	Deficient
Maxwell Insecticide Company, Inc.			
Maxwell Heptachlor 2E-Emulsifiable			
Heptachlor (Technical).....	32.51	32.70	Passed
do.....	32.51	33.10	Passed
Miller Chemical and Fertilizer Corp.			
Miller 2½ % Granular Heptachlor			
Heptachlor (Technical).....	3.47	3.50	Passed
Olin Mathieson Chemical Corp.			
Mathieson 2½ % Heptachlor Granular			
Heptachlor (Technical).....	3.47	3.50	Passed
Southern Agricultural Insecticides, Inc.			
SA-50 Brand 2½ % Heptachlor Granules			
Heptachlor (Technical).....	3.47	3.75	Passed
do.....	3.47	4.00	Passed
do.....	3.47	3.55	Passed
United Cooperatives, Inc. (Registered by Farmers Cooperative Exchange, Inc.)			
Unico 2½ % Heptachlor Granular			
Heptachlor (Technical).....	3.47	3.64	Passed
Unico Heptachlor Emulsifiable Concentrate			
Heptachlor (Technical).....	31.20	30.51	Not Registered

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Unico Heptachlor Transplanter Solution			
Heptachlor (Technical).....	32.30	31.86	Passed
MALATHION			
Agricultural Specialties			
Starbar Div.			
(Now: Thuron Industries, Inc.)			
Pre-Mal			
Malathion.....	57.00	58.83	Passed
California Chemical Company-Ortho Div.			
Ortho Malathion 50 Spray			
Malathion.....	50.00	51.83	Passed
Ortho Malathion 5 Emulsive			
Malathion.....	55.00	56.29	Passed
California Spray-Chemical Corp.			
(Now: California Chemical Company-Ortho Div.)			
Ortho Malathion Garden Dust			
Malathion.....	5.00	5.49	Passed
Cape Fear Chemicals, Inc.			
Tiger Brand 4% Malathion Dust			
Malathion.....	4.00	3.71	Deficient
Carolina Chemicals, Inc.			
Flight Brand 5% Malathion Dust			
Malathion.....	5.00	4.40	Deficient
Carter Insecticide and Chemical Company, Inc.			
Carolina Brand 4% Malathion Dust			
Malathion.....	4.00	3.74	Deficient
Carolina Brand Malathion Emulsifiable Concentrate			
Malathion.....	50.00	48.53	Passed
Farmers Cooperative Exchange, Inc.			
FCX 4% Malathion Dust			
Malathion.....	4.00	3.84	Passed
do.....	4.00	3.87	Passed
do.....	4.00	3.41	Deficient
do.....	4.00	3.47	Deficient

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
FCX Pet Dust			
Malathion.....	4.00	3.29	Deficient
do.....	4.00	3.58	Deficient
FCX 5% Malathion Dust			
Malathion.....	5.00	4.88	Passed
do.....	5.00	4.77	Passed
do.....	5.00	5.05	Passed
do.....	5.00	4.13	Deficient
FCX Malathion Emulsifiable Concentrate			
Malathion.....	55.20	57.55	Passed
Hopkins Agricultural Chemical Co.			
Hopkins 4% Malathion Dust			
Malathion.....	4.00	4.00	Passed
Hopkins Patio and Garden Spray			
Malathion.....	57.00	59.94	Passed
Maxwell Insecticide Company, Inc.			
Maxwell 4% Malathion Dust			
Malathion.....	4.00	3.60	Deficient
do.....	4.00	3.13	Deficient
Maxwell Premium Malathion 55% Emulsion			
Malathion.....	55.00	58.19	Passed
Olin Mathieson Chemical Corp.			
Malathion 5 lb. Emulsifiable Liquid			
Malathion.....	57.00	57.97	Passed
do.....	57.00	56.82	Passed
W. R. Peele Company, Inc.			
Pelco 4% Malathion Dust			
Malathion.....	4.00	3.50	Deficient
do.....	4.00	3.30	Deficient
do.....	4.00	3.82	Passed
Ralson Purina Co.			
Purina Malathion Grain Spray			
Malathion.....	57.00	58.08	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Rigo Manufacturing Co.			
Kill-Ko Malathion 5% Dust			
Malathion.....	5.00	5.20	Passed
Southern Agricultural Insecticides, Inc.			
SA-50 Brand 4% Malathion Dust			
Malathion.....	4.00	4.21	Passed
do.....	4.00	3.52	Deficient
do.....	4.00	3.53	Deficient
SA-50 Brand 5% Malathion Dust			
Malathion.....	5.00	6.39	Passed
SA-50 Brand 53% Emulsible Malathion			
Malathion.....	53.00	58.43	Passed
do.....	53.00	59.33	Passed
Swift & Co. Agricultural Chemical Div.			
Swift's 5% Malathion Dust			
Malathion.....	5.00	3.72	Deficient
Taylor Chemical Co.			
Superkill 4% Malathion Dust			
Malathion.....	4.00	4.40	Passed
do.....	4.00	4.16	Passed
do.....	4.00	4.01	Passed
Superkill 5% Malathion Dust			
Malathion.....	5.00	4.86	Passed
Superkill 25% Malathion (Wettable)			
Malathion.....	25.00	22.35	Deficient
United Cooperatives, Inc. (Registered by Farmers Cooperative Exchange, Inc.)			
Unico Malathion Dust			
Malathion.....	5.00	5.49	Passed
Unico Malathion Grain Spray			
Malathion.....	57.00	59.21	Passed
Woolfolk Chemical Works, Ltd.			
Security Brand 5% Malathion Dust			
Malathion.....	5.00	4.84	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Security Brand 55 % Malathion Emulsifiable Liquid			
Malathion.....	55.00	56.36	Passed
do.....	55.00	58.95	Passed

MALATHION-CAPTAN-SULFUR**Rose Manufacturing Co.****(Registered by Nott Manufacturing Company, Inc.)**

Tri-Ogen Floral and Garden Dust

Malathion.....	4.50	2.29	Deficient
Captan.....	5.00	4.93	Not
Sulfur.....	20.00	20.31	Registered

**MALATHION-CHLORDANE-
PIPERONYL BUTOXIDE-PYRETHRINS****United Cooperatives, Inc.****(Registered by Farmers Cooperatives Exchange, Inc.)**

Unico Ant and Roach Killer

Malathion.....	1.00	0.96	Passed
Chlordane.....	2.00	2.17	
Piperonyl butoxide.....	0.20	0.24	
Pyrethrins.....	0.02	0.03	

MALATHION-DDVP**Rigo Manufacturing Co.**

Kill-Ko Fly Bait

Malathion.....	1.00		Passed
DDVP.....	0.50		
Theoretical phosphorus.....	0.16	0.19	

Allied Drug Products Co.

Allied Brand Fly Bait

Malathion.....	1.00		Passed
DDVP.....	0.50		
Theoretical phosphorus.....	0.16	0.18	

**MALATHION-DIELDRIN-
PIPERONYL BUTOXIDE-PYRETHRINS****California Chemical Company-Ortho Div.**

Ortho Ant and Roach Bomb

Malathion.....	2.00	2.04	Passed
Dieldrin.....	0.30	0.33	
Piperonyl butoxide.....	0.12	0.10	
Pyrethrins.....	0.05	0.07	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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MALATHION-LETHANE 384**Chemical and Equipment Sales and Service Co. (Cessco)****Fog-Tox**

Malathion.....	19.45	18.24	Deficient
Lethane 384.....	16.28	18.21	

MALATHION-METHOXYCHLOR**Agricultural Specialties****Starbar Div.****(Now: Thuron Industries, Inc.)****Starbar M & M Dairy, Livestock and Poultry Dust**

Malathion.....	4.00	3.90	Passed
Methoxychlor.....	5.00	6.55	

Farmers Cooperative Exchange, Inc.**FCX Bean Dust**

Malathion.....	3.00	2.86	Passed
Methoxychlor.....	3.00	3.00	
Malathion.....	3.00	2.86	Passed
Methoxychlor.....	3.00	3.20	
Malathion.....	3.00	2.90	Passed
Methoxychlor.....	3.00	3.07	
Malathion.....	3.00	2.82	Deficient
Methoxychlor.....	3.00	3.15	

Thuron Industries, Inc.**Starbar Div.****Starbar M & M Dairy, Livestock and Poultry Dust**

Malathion.....	4.00	3.92	Passed
Methoxychlor.....	5.00	5.21	
Malathion.....	4.00	3.80	Passed
Methoxychlor.....	5.00	5.32	

Thompson-Hayward Chemical Co.**T-H Dairy Cattle Dust**

Malathion.....	4.00	2.89	Deficient
Methoxychlor.....	5.00	6.29	

MALATHION-CAPTAN-METHOXYCHLOR**Acme Quality Paints, Inc.****Acme Fruit Tree Spray**

Malathion.....	6.00	8.62	Passed
Captan.....	12.00		
Methoxychlor.....	12.00		
Theoretical chlorine.....	7.90	8.08	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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California Chemical Company-Ortho Div.

Ortho Home Orchard Spray

Malathion.....	7.50	8.80	Passed
Captan.....	15.00		
Methoxychlor.....	15.00		
Theoretical chlorine.....	9.87	10.43	

California Spray-Chemical Corp.**(Now: California Chemical Company-Ortho Div.)**

Ortho Dog Powder

Malathion.....	2.00	1.65	Deficient
Captan.....	5.00		
Methoxychlor.....	2.00		
Theoretical chlorine.....	2.38	2.29	

MALATHION-PINE OIL-ROTENONE**Ralston Purina Co.**

Purina Back Scratch (Concentrate)

Malathion.....	28.50	29.71	Passed
Pine oil.....	8.50	Present	
Rotenone.....	0.71	Present	

**MALATHION-PIPERONYL BUTOXIDE-
PYRETHRINS-STROBANE-THANITE****California Chemical Company-Ortho Div.**

Ortho Household Insect Bomb

Malathion.....	1.00	1.04	Passed
Piperonyl butoxide.....	0.20	0.12	
Pyrethrins.....	0.025	0.08	
Strobane.....	1.00	0.96	
Thanite.....	1.00	Present	
Malathion.....	1.00	1.10	Passed
Piperonyl butoxide.....	0.20	0.13	
Pyrethrins.....	0.025	0.08	
Strobane.....	1.00	1.06	
Thanite.....	1.00	Present	

MALATHION-SULFUR**Farmers Cooperative Exchange, Inc.**FCX Special Custom Blend 4% Malathion
plus Sulfur Dust

Malathion.....	4.00	3.58	Deficient
Sulfur.....	25.00	24.87	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Southern Agricultural Insecticides, Inc.			
SA-50 Brand 4 % Malathion Dust			
Malathion.....	4.00	3.22	Deficient
Sulfur.....	25.00	40.66	
SA-50 Brand 4 % Malathion Dust with 25 % Sulfur			
Malathion.....	4.00	3.92	Passed
Sulfur.....	25.00	25.30	
SA-50 Brand 4 % Malathion 70 % Sulfur 1 % Manganese Pole Bean Dust			
Malathion.....	4.00	4.00	Passed
Sulfur.....	70.00	72.46	
METHOXYCHLOR			
E. I. du Pont de Nemours and Company, Inc.			
Du Pont Dairy Cattle Insecticide			
Methoxychlor.....	50.00	50.34	Passed
do.....	50.00	50.00	Passed
do.....	50.00	49.98	Passed
Farmers Cooperative Exchange, Inc.			
FCX 50 % Methoxychlor Wettable Spray Powder			
Methoxychlor.....	50.00	51.42	Passed
L. Perrigo Co.			
Lightning Flea Powder			
Methoxychlor.....	5.00	4.96	Not Registered
Ralston Purina Co.			
Purina Dairy Cattle Dust			
Methoxychlor.....	10.00	10.07	Passed
Rigo Manufacturing Co.			
Kill-Ko Methoxychlor Dairy Kattle Dust			
Methoxychlor.....	10.00	10.64	Passed
United Cooperatives, Inc. (Registered by Farmers Cooperative Exchange, Inc.)			
Unico Methoxychlor Emulsifiable Concentrate			
Methoxychlor.....	23.80	24.40	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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METHOXYCHLOR-CAPTAN-ROTENONE**California Chemical Company-Ortho Div.****Ortho Tomato Vegetable Dust**

Methoxychlor.....	5.00		Passed
Captan.....	5.00		
Rotenone.....	0.75	Present	
Theoretical chlorine.....	3.29	3.27	

METHOXYCHLOR-CAPTAN-ROTENONE-SULFUR**United Cooperatives, Inc.****(Registered by Farmers Cooperative Exchange, Inc.)****Unico Dust for Small Fruits**

Methoxychlor.....	5.00		Passed
Captan.....	7.50		
Rotenone.....	1.00	Present	
Sulfur.....	25.00	25.24	
Theoretical chlorine.....	4.17	4.54	
Methoxychlor.....	5.00		Passed
Captan.....	7.50		
Rotenone.....	1.00	Present	
Sulfur.....	25.00	24.65	
Theoretical chlorine.....	4.17	4.29	

METHOXYCHLOR-CAPTAN-SEVIN**Rigo Manufacturing Co.****Kill-Ko 3 in 1 Garden Dust**

Methoxychlor.....	5.00		Passed
Captan.....	4.00		
Sevin.....	1.75		
Theoretical chlorine.....	2.94	3.06	
Theoretical nitrogen.....	0.31	0.39	
Methoxychlor.....	5.00		Passed
Captan.....	4.00		
Sevin.....	1.75		
Theoretical chlorine.....	2.94	2.79	
Theoretical nitrogen.....	0.31	0.38	

METHOXYCHLOR-LETHANE 384**Douglas Chemical Co.****Douglas "88" Improved Farm Bin Spray**

Methoxychlor.....	3.75	3.61	Excessive
Lethane 384.....	1.60	3.32	Active
			Ingredient

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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METHOXYCHLOR-PIPERONYL BUTOXIDE- PYRETHRINS

California Chemical Company-Ortho Div.

Ortho Home and Garden Insect Bomb

Methoxychlor.....	2.00	2.02	Passed
Piperonyl butoxide.....	0.50	0.43	
Pyrethrins.....	0.10	0.14	

Gulf Oil Corp.

Quick Action Gulf Spray

Methoxychlor.....	0.75	0.83	Passed
Piperonyl butoxide.....	0.12	0.13	
Pyrethrins.....	0.10	0.12	

Methoxychlor.....	0.75	0.77	Passed
Piperonyl butoxide.....	0.12	0.13	
Pyrethrins.....	0.10	0.11	

Methoxychlor.....	0.75	0.76	Passed
Piperonyl butoxide.....	0.12	0.13	
Pyrethrins.....	0.10	0.11	

Gulf Spray Aerosol

Methoxychlor.....	2.00	2.55	Passed
Piperonyl butoxide.....	1.00	1.01	
Pyrethrins.....	0.25	0.26	

Methoxychlor.....	2.00	1.95	Passed
Piperonyl butoxide.....	1.00	0.90	
Pyrethrins.....	0.25	0.28	

Rigo Manufacturing Co.

Kill-Ko Insect Bomb for House and Garden

Methoxychlor.....	2.00	2.11	Passed
Piperonyl butoxide.....	0.50	0.52	
Pyrethrins.....	0.10	0.11	

Methoxychlor.....	2.00	2.01	Passed
Piperonyl butoxide.....	0.50	0.47	
Pyrethrins.....	0.10	0.13	

METHOXYCHLOR-PIPERONYL BUTOXIDE- PYRETHRINS-THANITE

California Spray-Chemical Corp.

(Now: California Chemical Company-Ortho Div.)

Ortho Fly Spray

Methoxychlor.....	0.50	0.60	Passed
Piperonyl butoxide.....	0.50	0.63	
Pyrethrins.....	0.05	0.07	
Thanite.....	0.30	Present	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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METHOXYCHLOR-ROTENONE**Pratt Laboratories, Inc.
(Registered by C. J. Martin and Sons)****Pratts Lice Killer**

Methoxychlor.....	0.50	0.96	Deficient
Rotenone.....	1.00	0.60	

Sears, Roebuck & Co.**Cross Country Vegetable Garden Dust**

Methoxychlor.....	5.00	10.75	Deficient
Rotenone.....	1.25	0.67	Excessive Active Ingredient

METHOXYCHLOR-ROTENONE-ZINEB**Acme Quality Paints, Inc.****Acme All Round Dust**

Methoxychlor.....	5.00	5.36	Deficient
Rotenone.....	0.75	Present	
Zineb.....	5.20	4.76	

PARATHION**Atlas Agricultural Chemicals, Inc.****Atlas 4 % Parathion Granules**

Parathion.....	4.00	4.22	Passed
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Atlas Parathion EM-4 Emulsifiable Concentrate

Parathion.....	46.50	45.69	Passed
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Taylor Chemical Co.**Superkill 15 % Parathion Powder (Wettable)**

Parathion.....	15.00	14.79	Passed
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PARATHION-CAPTAN**California Chemical Company-Ortho Div.****Orthocide Parathion 25-7.5 Wettable**

Parathion.....	7.50	6.87	Deficient
Captan.....	25.00	25.35	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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PARATHION-SULFUR**Taylor Chemical Co.****Superkill Peach Spray No. 2**

Parathion.....	3.70	3.66	Passed
Sulfur.....	75.00	74.20	

PARATHION-SULFUR-ZINC**Taylor Chemical Co.****Superkill Peach Spray No. 6**

Parathion.....	2.73	2.54	Deficient
Sulfur.....	54.50	53.59	
Zinc as metallic.....	14.54	14.27	

PHALTAN**California Chemical Company-Ortho Div.****Ortho Phaltan 50 Wettable**

Phaltan.....	50.00	55.08	Passed
do.....	50.00	55.08	Passed

PHOSDRIN**Southern Agricultural Insecticides, Inc.****SA-50 Brand 2% Phosdrin Dust**

Phosdrin.....	2.00	1.44	Deficient
do.....	2.00	1.64	Deficient
do.....	2.00	1.93	Passed

PHOSPHORUS**Nip-Co Manufacturing Company, Inc.****Rat Nip**

Phosphorus.....	1.25	1.47	Passed
do.....	1.25	1.39	Passed
do.....	1.25	1.29	Passed
do.....	1.25	1.62	Passed
do.....	1.25	1.65	Passed

PIVAL**Chas. Pfizer and Company, Inc.****Tri-Ban Mice Killer**

Pival.....	0.025	0.032	Not Registered
do.....	0.025	0.035	Not Registered

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Farmers Cooperative Exchange, Inc.			
FCX Rat and Mouse (Ready to Use Pellets)			
Pival.....	0.025	0.029	Not Registered
Ralston Purina Co.			
Purina Rat Control (Cereal Base)			
Pival.....	0.025	0.029	Passed
PIVALYN			
Ralston Purina Co.			
Purina Rat-Kill			
Pivalyn.....	0.0275	0.0271	Passed
do.....	0.0275	0.0275	Passed
PYRETHRINS			
Green Thumb Products			
Green Thumb Insecticide Spray			
Pyrethrins.....	0.007	0.008	Passed
McCormick and Company, Inc.			
Bee Brand Insect Powder			
Pyrethrins.....	0.75	0.96	Passed
do.....	0.75	0.94	Passed
do.....	0.75	0.83	Passed
Real-Kill Products			
Division of Cook Chemical Co.			
Real-Kill Insect Bomb			
Pyrethrins.....	0.23	0.28	Passed
PYRETHRINS-BORIC ACID-PIPERONYL BUTOXIDE			
McCormick and Company, Inc.			
Bee Brand Roach Killer			
Pyrethrins.....	0.33	0.30	Passed
Boric acid.....	15.00	15.46	
Piperonyl butoxide.....	2.00	1.71	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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PYRETHRINS-DIAZINON-PIPERONYL BUTOXIDE**Maxwell Insecticide Company, Inc.**

Maxwell Household Insect Spray

Pyrethrins.....	0.052	0.07	Passed
Diazinon.....	0.50	0.65	
Piperonyl butoxide.....	0.261	0.35	

Poplin Chemical Co.

Pop-O-Lite Household Insect Spray

Pyrethrins.....	0.052	0.054	Passed
Diazinon.....	0.50	0.49	
Piperonyl butoxide.....	0.261	0.24	

**PYRETHRINS—DIAZINON—N-OCTYL
BICYCLOHEPTENE DICARBOXIMIDE—
PIPERONYL BUTOXIDE****Ralston Purina Co.**

Purina Roach Bomb

Pyrethrins.....	0.05	0.08	Passed
Diazinon.....	0.50		
N-octyl bicycloheptene dicarboxi- mide.....	0.17		
Piperonyl butoxide.....	0.10	0.08	
Theoretical nitrogen.....	0.055	0.048	

Taylor Chemical Co.

Superkill New Roach and Ant Killer

Pyrethrins.....	0.05	0.08	Passed
Diazinon.....	0.50		
N-octyl bicycloheptene dicarboxi- mide.....	0.166		
Piperonyl butoxide.....	0.10	0.11	
Theoretical nitrogen.....	0.055	0.035	

**PYRETHRINS-LETHANE 384-PINE OIL-
PIPERONYL BUTOXIDE****Ralston Purina Co.**

Purina Dairy Spray

Pyrethrins.....	0.03	0.06	Passed
Lethane 384.....	1.00	Present	
Pine oil.....	2.00	Present	
Piperonyl butoxide.....	0.24	0.13	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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PYRETHRINS-PINE OIL**Dr. LeGear, Inc.****Dr. LeGear's Beef and Dairy Cattle Spray**

Pyrethrins.....	0.03	0.07	Passed
Pine oil.....	2.00	Present	

PYRETHRINS-PIPERONYL BUTOXIDE**Agricultural Specialties****Starbar Div.****(Now: Thuron Industries, Inc.)****Starbar Redi-Mist Dairy Livestock Spray**

Pyrethrins.....	0.10	0.12	Passed
Piperonyl butoxide.....	1.00	0.95	

The Great Atlantic and Pacific Tea Company, Inc.**Bright Sail Aerosol Insect Killer**

Pyrethrins.....	0.30	0.30	Passed
Piperonyl butoxide.....	0.60	0.61	

Barker, Moore and Mein Company, Inc.**Barker's New Improved Cattle Fly Spray**

Pyrethrins.....	0.05	0.06	Passed
Piperonyl butoxide.....	0.10	0.12	

Colonial Stores, Inc.**(Registered by Stalfort Pressure-Pak, Inc.)****New 3-D Insect Killer**

Pyrethrins.....	0.30	0.32	Passed
Piperonyl butoxide.....	0.60	0.52	

The Dill Company, Inc.**Dill Spray**

Pyrethrins.....	0.031	0.06	Passed
Piperonyl butoxide.....	0.251	0.211	

Gulf Oil Corp.**Gulf Livestock Spray**

Pyrethrins.....	0.19	0.28	Passed
Piperonyl butoxide.....	0.07	0.10	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Hot Shot Quality Products, Inc.			
Hot Shot Insect Killer			
Pyrethrins.....	0.25	0.28	Passed
Piperonyl butoxide.....	0.375	0.350	
Pyrethrins.....	0.25	0.26	Passed
Piperonyl butoxide.....	0.375	0.392	
Pyrethrins.....	0.25	0.26	Passed
Piperonyl butoxide.....	0.375	0.403	
Pyrethrins.....	0.25	0.26	Passed
Piperonyl butoxide.....	0.375	0.350	
S. C. Johnson and Son, Inc.			
Raid Pressurized Flying Insect Killer			
Pyrethrins.....	0.20	0.20	Passed
Piperonyl butoxide.....	1.00	0.94	
Ralston Purina Co.			
Purina Insecticide Mist			
Pyrethrins.....	0.10	0.12	Passed
Piperonyl butoxide.....	1.00	1.21	
Purina Face and Horse Fly Bomb			
Pyrethrins.....	0.18	0.20	Passed
Piperonyl butoxide.....	0.36	0.45	
Purina Dairy Oiler Insecticide Concentrate			
Pyrethrins.....	0.50	0.50	Passed
Piperonyl butoxide.....	1.00	0.98	
Rigo Manufacturing Co.			
Kill-Ko Kattle Spray			
Pyrethrins.....	0.03	0.06	Passed
Piperonyl butoxide.....	0.30	0.31	
Kill-Ko Quick Kill Insect Killer			
Pyrethrins.....	0.06	0.08	Passed
Piperonyl butoxide.....	0.60	0.71	
Shulton Fine Chemicals Div. (Now: Shulton, Inc.)			
Bridgeport Solution 45 Insect Killer			
Pyrethrins.....	0.08	0.10	Passed
Piperonyl butoxide.....	0.20	0.22	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
West Chemical Products, Inc.			
Vaposector Fluid			
Pyrethrins.....	.....	0.44	Misbranded
Piperonyl butoxide.....	.....	0.70	
Whitmoyer Laboratories, Inc.			
New Improved Whitspray			
Pyrethrins.....	0.025	0.05	Passed
Piperonyl butoxide.....	0.05	Present	
Wirthmore Feeds, Inc.			
Big-W Household Aerosol			
Pyrethrins.....	0.45	0.48	Passed
Piperonyl butoxide.....	1.125	1.43	
RONNEL			
The Dow Chemical Co.			
Dow Dairy Barn and Livestock Spray			
Ronnel.....	24.00	27.27	Passed
Dow Korlan 24E			
Ronnel.....	24.00	26.77	Passed
ROTENONE			
Acme Quality Paints, Inc.			
Acme Garden Guard			
Rotenone.....	1.00	0.72	Deficient
Allied Drug Products Co.			
Dr. Thacher's Grub Powder			
Rotenone.....	1.75	1.35	Passed
Carolina Chemical Corp.			
Champion Rotenone 1% Dust			
Rotenone.....	1.00	0.68	Deficient
do.....	1.00	0.73	Deficient
Carter Insecticide and Chemical Company, Inc.			
Carolina Brand 1% Rotenone Dust			
Rotenone.....	1.00	0.82	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
William Cooper and Nephews, Inc.			
Cooper Cattle Grub and Louse Powder			
Rotenone.....	1.50	1.65	Not Registered
Farmers Cooperative Exchange, Inc.			
FCX Rotox "100"			
Rotenone.....	1.00	0.82	Passed
do.....	1.00	0.85	Passed
FCX 5% Rotenone Wettable Powder			
Rotenone.....	5.00	4.29	Deficient
GurMiCo Chemicals, Inc.			
GurMiCo 1% Rotenone			
Rotenone.....	1.00	1.00	Passed
do.....	1.00	1.08	Passed
McCormick and Company, Inc.			
Bee Brand Ant Killer			
Rotenone.....	5.00	4.84	Passed
Rigo Manufacturing Co.			
Kill-Ko 1% Rotenone Bean Beetle Dust			
Rotenone.....	1.00	1.01	Passed
Taylor Chemical Co.			
Superkill 1% Rotenone Dust for Beans			
Rotenone.....	1.00	0.80	Passed
Thompson-Hayward Chemical Co.			
T-H Cattle Grub Dust			
Rotenone.....	1.67	1.53	Passed
Wirthmore Feeds, Inc.			
Big-W Rotenone 1% Dust			
Rotenone.....	1.00	0.95	Passed
Woolfolk Chemical Works, Ltd.			
Security Brand Mexide 1% Rotenone Dust			
Rotenone.....	1.00	0.84	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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ROTENONE-COPPER**J. M. Harris and Company, Inc.****Copper Dragon Dust**

Rotenone.....	0.75	0.73	Passed
Copper as metallic.....	7.00	6.98	

ROTENONE-CUPROUS OXIDE-LETHANE 60**Rigo Manufacturing Co.****Kill-Ko 3 in 1 Garden Dust**

Rotenone.....	0.75	0.53	Deficient
Cuprous oxide.....	4.00	4.05	
Lethane 60.....	0.37	Present	

ROTENONE-LETHANE 60-SULFUR**The Parrott Chemical Co.****Lucky Strike Beetle Buster Formula No. 100**

Rotenone.....	0.75	0.62	Not
Lethane 60.....	1.00	Present	Registered
Sulfur.....	15.00	16.12	

ROTENONE-PINE OIL-PYRETHRINS**H. Clay Glover Company, Inc.****Glover's Imperial Pressurized Flea and Tick Killer**

Rotenone.....	0.008	Present	Not
Pine Oil.....	0.900	Present	Registered
Pyrethrins.....	0.056	0.07	

ROTENONE-PIPERONYL BUTOXIDE-PYRETHRINS**Boyle-Midway, Inc.****Black Flag Flea, Tick and Louse Powder**

Rotenone.....	0.50	0.30	Deficient
Piperonyl butoxide.....	1.00	1.22	
Pyrethrins.....	0.10	0.14	
Rotenone.....	0.50	0.36	Passed
Piperonyl butoxide.....	1.00	0.83	
Pyrethrins.....	0.10	0.12	
Rotenone.....	0.50	0.37	Passed
Piperonyl butoxide.....	1.00	0.80	
Pyrethrins.....	0.10	0.14	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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GurMiCo Chemicals, Inc.

GurMiCo All Purpose Insect Dust

Rotenone.....	0.25	0.29	Passed
Piperonyl butoxide.....	0.50	0.37	
Pyrethrins.....	0.05	0.07	

ROTENONE-PYRETHRINS-SULFUR**Southern Agricultural Chemicals, Inc.**

Royal Brand Garden Dust

Rotenone.....	0.50	0.54	Not Registered
Pyrethrins.....	0.035	0.06	
Sulfur.....	18.00	17.50	

Southern Agricultural Insecticides, Inc.

SA-50 Brand Mexican Bean Beetle Control

Rotenone.....	0.50	0.65	Passed
Pyrethrins.....	0.08	0.14	
Sulfur.....	18.00	18.43	

Rotenone.....	0.50	0.75	Passed
Pyrethrins.....	0.08	0.15	
Sulfur.....	18.00	18.41	

Rotenone.....	0.50	0.65	Passed
Pyrethrins.....	0.08	0.15	
Sulfur.....	18.00	19.43	

SA-50 Brand SA-100 For Mexican Bean Beetle Control

Rotenone.....	1.00	1.04	Passed
Pyrethrins.....	0.08	0.10	
Sulfur.....	18.00	18.03	

ROTENONE-PYRETHRINS-SULFUR-ZINEB**Swift and Co.****Agricultural Chemical Div.**

End-O-Pest for Gardens

Rotenone.....	1.00	1.05	Deficient
Pyrethrins.....	0.10	0.14	
Sulfur.....	10.00	10.46	
Zineb.....	3.25	2.44	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
ROTENONE-SULFUR			
Farmers Cooperative Exchange, Inc.			
FCX Cattle Grub and Louse Powder			
Rotenone.....	1.60	1.48	Passed
Sulfur.....	45.00	44.03	
Graham Chemical Co.			
Graham's Red Star Vegetable Dust			
Rotenone.....	1.00	1.08	Passed
Sulfur.....	15.00	15.89	
Rotenone.....	1.00	10.7	Passed
Sulfur.....	15.00	16.58	
Rotenone.....	1.00	0.92	Passed
Sulfur.....	15.00	15.98	
Maxwell Insecticide Company, Inc.			
Maxwell 1 % Rotenone Dust			
Rotenone.....	1.00	0.80	Passed
Sulfur.....	15.00	15.23	
Rotenone.....	1.00	1.11	Passed
Sulfur.....	15.00	14.26	
Rotenone.....	1.00	0.87	Passed
Sulfur.....	15.00	15.02	
Maxwell Cattle Grub and Louse Powder			
Rotenone.....	1.50	1.37	Passed
Sulfur.....	65.00	64.35	
W. R. Peele Company, Inc.			
Pelco 1 % Rotenone Dust			
Rotenone.....	1.00	0.88	Passed
Sulfur.....	15.00	14.51	
Rotenone.....	1.00	1.95	Excessive Active Ingredient
Sulfur.....	15.00	16.37	
Rotenone.....	1.00	0.88	Passed
Sulfur.....	15.00	14.93	
Wyatt-Quarles Seed Co.			
Wyatt's 1 % Rotenone Dust			
Rotenone.....	1.00	0.97	Passed
Sulfur.....	15.00	15.00	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
SABADILLA			
Cape Fear Chemicals, Inc.			
Tiger Brand 20% Sabadilla Dust			
Sabadilla alkaloids.....	0.80	0.99	Passed
Carter Insecticide and Chemical Company, Inc.			
Carolina Brand 10% Sabadilla Dust			
Sabadilla alkaloids.....	0.40	0.50	Passed
do.....	0.40	0.89	Passed
GurMiCo Chemicals, Inc.			
GurMiCo 20% Sabadilla Dust			
Sabadilla alkaloids.....	0.80	0.98	Passed
J. M. Harris and Company, Inc.			
Dragon Sabadilla Dust			
Sabadilla alkaloids.....	0.80	0.99	Passed
do.....	0.80	0.99	Passed
Maxwell Insecticide Company, Inc.			
Maxwell 20% Sabadilla Dust			
Sabadilla alkaloids.....	0.80	0.89	Passed
do.....	0.80	0.91	Passed
Taylor Chemical Co.			
Superkill 20% Sabadilla Dust			
Sabadilla alkaloids.....	0.80	0.81	Passed
SABADILLA-SULFUR			
Dairy Association Company, Inc.			
Graylawn Farm Louse-Chase			
Sabadilla alkaloids.....	1.12	1.19	Passed
Sulfur.....	35.00	34.12	
Southern Agricultural Chemicals, Inc.			
Royal Brand Saba Dust 20			
Sabadilla alkaloids.....	0.60	0.67	Passed
Sulfur.....	15.00	17.94	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
SEVIN			
Acme Quality Paints, Inc.			
Acme Sevin 50W			
Sevin.....	50.00	50.32	Passed
California Chemical Company-Ortho Div.			
Ortho Sevin 10 Dust			
Sevin.....	10.00	10.27	Passed
Ortho Sevin Garden Spray			
Sevin.....	50.00	53.72	Passed
Carolina Chemicals, Inc.			
Flight Brand Sevin Bean Dust			
Sevin.....	1.75	1.77	Passed
Flight Brand 5% Sevin Dust			
Sevin.....	5.00	5.06	Passed
Flight Brand 10% Sevin Dust			
Sevin.....	10.00	10.11	Passed
Daly-Herring Co.			
Dee Aitch 10% Sevin Dust			
Sevin.....	10.00	10.24	Passed
do.....	10.00	10.49	Passed
Farmers Cooperative Exchange, Inc.			
FCX "7" Dust			
Sevin.....	1.75	1.71	Passed
FCX 5% Sevin Dust			
Sevin.....	5.00	4.81	Passed
do.....	5.00	4.93	Passed
Florida Agricultural Supply Co. Division of Wilson-Toomer Fertilizer Co.			
Fasco Sevin Bean Dust 175			
Sevin.....	1.75	1.55	Deficient

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
W. R. Grace and Co.			
Davison Chemical Div.			
Naco 1¾ % Sevin Dust			
Sevin.....	1.75	2.01	Passed
do.....	1.75	1.93	Passed
Naco 5 % Sevin Dust			
Sevin.....	5.00	5.40	Passed
Naco Sevin 10 % Dust			
Sevin.....	10.00	10.49	Passed
Maxwell Insecticide Company, Inc.			
Maxwell 5 % Sevin Tobacco Dust			
Sevin.....	5.00	4.92	Passed
Miller Chemical and Fertilizer Corp.			
Miller Sevin 1.75 % Dust			
Sevin.....	1.75	1.82	Passed
Miller 5 % Sevin Dust			
Sevin.....	5.00	4.82	Passed
Miller 10 % Sevin Insecticide Dust			
Sevin.....	10.00	10.65	Passed
Niagara Chemical Div.			
Food Machinery and Chemical Corp.			
Niagara Sevin 10 Dust			
Sevin.....	10.00	10.61	Passed
do.....	10.00	10.22	Passed
do.....	10.00	10.43	Passed
Planters Chemical Corp.			
Planters 10 % Sevin Dust			
Sevin.....	10.00	10.36	Passed
do.....	10.00	10.68	Passed
do.....	10.00	10.56	Passed
do.....	10.00	10.27	Passed
Rigo Manufacturing Co.			
Kill-Ko Vegetable Dust for Garden Insects			
Sevin.....	1.75	2.10	Not Registered

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Kill-Ko Flea Powder			
Sevin.....	5.00	5.38	Passed
do.....	5.00	5.48	Passed
do.....	5.00	5.64	Passed
Sam Houston Co.			
Houston's Sevin 1.75 Bean Dust			
Sevin.....	1.75	1.81	Passed
Seacoast Laboratories, Inc.			
Twin Light Sevin 5% Dust			
Sevin.....	5.00	5.64	Passed
Southern Agricultural Insecticides, Inc.			
SA-50 Brand Sevin 1.75 Dust			
Sevin.....	1.75	2.27	Passed
SA-50 Brand Sevin 5% Dust			
Sevin.....	5.00	4.25	Deficient
do.....	5.00	5.32	Passed
Swift and Co. Agricultural Chemical Div.			
Swift's Vegetable Dust 5% Sevin			
Sevin.....	5.00	4.82	Passed
do.....	5.00	5.32	Passed
Taylor Chemical Co.			
Superkill 1¼ % Sevin Dust			
Sevin.....	1.75	1.07	Deficient
do.....	1.75	2.69	Excessive Active Ingredient
Superkill 5% Sevin Dust			
Sevin.....	5.00	5.16	Passed
do.....	5.00	5.38	Passed
Superkill 7½ % Sevin Dust			
Sevin.....	7.50	7.72	Passed
Superkill 50% Sevin Wettable Powder			
Sevin.....	50.00	52.45	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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Woolfolk Chemical Works, Ltd.

Security Brand Sevin Bean Dust

Sevin.....	1.75	1.70	Passed
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Security Brand 5% Sevin Garden Dust

Sevin.....	5.00	6.10	Passed
do.....	5.00	5.07	Passed
do.....	5.00	4.93	Passed
do.....	5.00	5.06	Passed
do.....	5.00	4.37	Deficient

Security Brand 7½ % Sevin Dust

Sevin.....	7.50	8.21	Passed
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Security Brand 10% Sevin Cotton Dust

Sevin.....	10.00	10.27	Passed
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SEVIN-CAPTAN**Woolfolk Chemical Works, Ltd.**

Security Brand Pan Fruit Dust or Spray

Sevin.....	7.50		Passed
Captan.....	2.50		
Theoretical nitrogen.....	0.86	0.79	

SEVIN-CAPTAN-METHOXYCHLOR**Rigo Manufacturing Co.**

Kill-Ko 3 in 1 Garden Dust

Sevin.....	1.75		Deficient
Captan.....	4.00		
Methoxychlor.....	5.00		
Theoretical chlorine.....	2.94	2.53	
Theoretical nitrogen.....	0.31	0.50	
Sevin.....	1.75		Passed
Captan.....	4.00		
Methoxychlor.....	5.00		
Theoretical chlorine.....	2.94	3.30	
Theoretical nitrogen.....	0.31	0.31	

SEVIN-COPPER-SULFUR**Carolina Chemicals, Inc.**

Flight Brand Copper-Sevin-Sulfur Peanut Dust

Sevin.....	5.00	5.74	Passed
Copper as metallic.....	4.00	4.27	
Sulfur.....	75.00	73.63	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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Farmers Cooperative Exchange, Inc.**FCX Copper Sulfur Sevin Dust**

Sevin.....	5.00	6.00	Passed
Copper as metallic.....	4.00	4.17	
Sulfur.....	80.00	79.54	

Planters Chemical Corp.**Planters Sevin-Copper-Sulfur Dust for Peanuts**

Sevin.....	5.00	5.60	Passed
Copper as metallic.....	4.00	3.89	
Sulfur.....	75.00	76.26	

SEVIN-DICHLOROPHENE**Agricultural Specialties****Starbar Div.****(Now: Thuron Industries, Inc.)****Starbar Trix Flea and Tick Powder**

Sevin.....	5.00	4.77	Passed
Dichlorophene.....	0.50	0.75	

SEVIN-PARATHION**Taylor Chemical Co.****Superkill Tobacco Dust No. 51**

Sevin.....	5.00	5.03	Passed
Parathion.....	1.00	1.01	

SEVIN-SULFUR**California Chemical Company-Ortho Div.****Ortho Sevin-Sulfur 1.75-60 Bean Dust**

Sevin.....	1.75	2.29	Passed
Sulfur.....	60.00	59.24	

Farmers Cooperative Exchange, Inc.**FCX "240" Dust**

Sevin.....	2.00	2.87	Passed
Sulfur.....	40.00	40.70	
Sevin.....	2.00	2.29	Passed
Sulfur.....	40.00	38.98	
Sevin.....	2.00	3.16	Excessive Active Ingredient
Sulfur.....	40.00	39.66	
Sevin.....	2.00	1.91	Passed
Sulfur.....	40.00	40.15	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
J. M. Harris and Company, Inc.			
Blue Dragon Sevin Dust			
Sevin.....	2.00	3.00	Excessive Active Ingredient
Sulfur.....	10.00	10.29	
Sevin.....	2.00	3.00	Excessive Active Ingredient
Sulfur.....	10.00	10.08	
Sevin.....	2.00	2.15	Passed
Sulfur.....	10.00	10.14	
Sevin.....	2.00	2.29	Passed
Sulfur.....	10.00	10.45	
Miller Chemical and Fertilizer Corp.			
Miller 1.75 % Sevin 50 % Sulfur Dust			
Sevin.....	1.75	2.87	Excessive Active Ingredient
Sulfur.....	50.00	49.60	
Sevin.....	1.75	2.58	Passed
Sulfur.....	50.00	49.46	
Miller 3 % Sevin 50 % Sulfur Dust			
Sevin.....	3.00	3.30	Passed
Sulfur.....	50.00	51.62	
Southern Agricultural Insecticides, Inc.			
SA-50 Brand Sevin 1.75 % Dust with 60 % Sulfur			
Sevin.....	1.75	2.29	Passed
Sulfur.....	60.00	63.55	
Sevin.....	1.75	1.86	Passed
Sulfur.....	60.00	60.18	
Woolfolk Chemical Works, Ltd.			
Security Brand 1¼ % Sevin-60 % Sulfur Bean Dust			
Sevin.....	1.75	2.87	Excessive Active Ingredient
Sulfur.....	60.00	61.30	
Sevin.....	1.75	1.86	Passed
Sulfur.....	60.00	58.40	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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SEVIN-SULFUR-ZINEB**Acme Quality Paints, Inc.**

Acme Tomato Vegetable Dust

Sevin.....	3.00		Passed
Sulfur.....	20.00	21.59	
Zineb.....	5.20	5.09	
Theoretical nitrogen.....	0.73	0.84	

STROBANE**Rexall Drug Co.**

Elkays Moth Proofer

Strobane.....	5.00	4.80	Passed
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STROBANE-PIPERONYL BUTOXIDE-PYRETHRINS**Hess and Clark**

Division of Richardson-Merrell, Inc.

Hess and Clark Hess Bomb

Strobane.....	2.00	1.96	Passed
Piperonyl butoxide.....	0.80	0.70	
Pyrethrins.....	0.20	0.24	

**STROBANE-PIPERONYL BUTOXIDE-PYRETHRINS—
RONNEL-THANITE****California Chemical Company-Ortho Div.**

Ortho Mosquito and Fly Bomb

Strobane.....	1.00		Passed
Piperonyl butoxide.....	0.20	0.18	
Pyrethrins.....	0.025	0.04	
Ronnel.....	0.40		
Thanite.....	1.00	Present	
Theoretical chlorine.....	0.79	0.79	
Strobane.....	1.00		Passed
Piperonyl butoxide.....	0.20	0.14	
Pyrethrins.....	0.025	0.06	
Ronnel.....	0.40		
Thanite.....	1.00	Present	
Theoretical chlorine.....	0.79	0.78	

THALLIUM SULFATE**Black Magic Co.**

Black Magic Roach, Waterbug and Mouse Destroyer

Thallium sulfate.....	1.25	1.05	Deficient
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Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Corn Nox Products Co.			
Roach Nox			
Thallium sulfate.....	2.00	2.11	Not Registered
O. E. Linck Company, Inc.			
Tat Mo-Go			
Thallium sulfate.....	1.00	1.04	Passed
do.....	1.00	1.25	Passed
do.....	1.00	1.27	Passed
do.....	1.00	0.61	Deficient
Nott Manufacturing Company, Inc.			
Ant-X Ant Jelly			
Thallium sulfate.....	1.00	0.90	Deficient Not Registered
THIODAN			
California Chemical Company-Ortho Div.			
Ortho Thiodan-3 Dust			
Thiodan.....	3.00	3.07	Passed
Niagara Chemical Div. Food Machinery and Chemical Corp.			
Niagara Thiodan Miscible			
Thiodan.....	24.00	24.85	Passed
Olin Mathieson Chemical Corp.			
Mathieson Thiodan 2-lb. Emulsifiable			
Thiodan.....	24.00	24.85	Passed
TOXAPHENE			
Armour Agricultural Chemical Co.			
Armagard 20% Toxaphene Dust			
Toxaphene.....	20.00	20.00	Passed
Atlas Agricultural Chemicals, Inc.			
Atlas Toxaphene Emulsion Concentrate			
Toxaphene.....	60.00	57.28	Passed
do.....	60.00	59.17	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Daly-Herring Co.			
Dee Aitch 60% Toxaphene Emulsifiable Concentrate			
Toxaphene.....	60.40	62.06	Passed
Farmers Cooperative Exchange, Inc.			
FCX 20-0 Toxaphene			
Toxaphene.....	20.00	19.42	Passed
FCX Toxaphene Emulsion Concentrate			
Toxaphene.....	60.00	62.63	Passed
W. R. Grace and Co. Davison Chemical Div.			
Naco 20 Toxaphene Dust			
Toxaphene.....	20.00	20.00	Passed
GurMiCo Chemicals, Inc.			
GurMiCo Toxaphene 60% Emulsion			
Toxaphene.....	60.00	61.41	Passed
do.....	60.00	60.44	Passed
Maxwell Insecticide Company, Inc.			
Maxwell 10% Toxaphene Dust			
Toxaphene.....	10.00	10.50	Passed
Maxwell 20% Toxaphene Dust			
Toxaphene.....	20.00	20.29	Passed
Olin Mathieson Chemical Corp.			
Mathieson Toxaphene 6 lb. Emulsifiable Liquid			
Toxaphene.....	58.80	60.43	Passed
W. R. Peele Company, Inc.			
Pelco 10% Toxaphene Dust			
Toxaphene.....	10.00	10.28	Passed
Pelco 20% Toxaphene Dust			
Toxaphene.....	20.00	20.00	Passed
Pelco Toxaphene 60 E. C.			
Toxaphene.....	57.50	58.63	Passed
do.....	57.50	59.36	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Smith-Douglass Company, Inc.			
Smith-Douglass 6 lb. Toxaphene Emulsion Concentrate			
Toxaphene.....	60.00	60.01	Passed
Southern Agricultural Chemicals, Inc.			
Royal Brand Toxaphene 60 Emulsion Concentrate			
Toxaphene.....	60.00	59.97	Passed
Taylor Chemical Co.			
Superkill 20% Toxaphene Dust			
Toxaphene.....	20.00	20.29	Passed
do.....	20.00	20.56	Passed
Superkill 60% Toxaphene Emulsifiable Concentrate			
Toxaphene.....	60.00	59.95	Passed
United Cooperatives, Inc. (Registered by Farmers Cooperative Exchange, Inc.)			
Unico Toxaphene Emulsifiable Concentrate			
Toxaphene.....	60.00	60.99	Passed
do.....	60.00	48.83	Deficient
TOXAPHENE-DDT			
Atlas Agricultural Chemicals, Inc.			
Atlas Toxaphene-DDT Emulsion Concentrate			
Toxaphene.....	40.00		Passed
DDT.....	20.00		
Theoretical chlorine.....	36.80	36.57	
California Chemical Company-Ortho Div.			
Ortho Toxaphene-DDT 14-7 Dust			
Toxaphene.....	14.00		Passed
DDT.....	7.00		
Theoretical chlorine.....	12.88	12.59	
Toxaphene.....	14.00		Passed
DDT.....	7.00		
Theoretical chlorine.....	12.88	13.35	
Daly-Herring Co.			
Dee Aitch 14% Toxaphene 7% DDT			
Toxaphene.....	14.00		Passed
DDT.....	7.00		
Theoretical chlorine.....	12.88	12.32	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Dee Aitch 40% Toxaphene 20% DDT Emulsifiable Concentrate			
Toxaphene.....	40.00		Passed
DDT.....	20.00		
Theoretical chlorine.....	36.80	37.12	
Toxaphene.....	40.00		Passed
DDT.....	20.00		
Theoretical chlorine.....	36.80	36.64	
Toxaphene.....	40.00		Passed
DDT.....	20.00		
Theoretical chlorine.....	36.80	36.26	
Toxaphene.....	40.00		Deficient
DDT.....	20.00		
Theoretical chlorine.....	36.80	33.05	
Farmers Cooperative Exchange, Inc.			
FCX 14-7 Dust			
Toxaphene.....	14.00		Passed
DDT.....	7.00		
Theoretical chlorine.....	12.88	13.04	
Toxaphene.....	14.00		Passed
DDT.....	7.00		
Theoretical chlorine.....	12.88	12.86	
FCX "42" Cotton Spray			
Toxaphene.....	38.70		Passed
DDT.....	19.30		
Theoretical chlorine.....	35.58	36.91	
Toxaphene.....	38.70		Passed
DDT.....	19.30		
Theoretical chlorine.....	35.58	35.46	
W. R. Grace and Co. Davison Chemical Div.			
Naco DDT-Toxaphene 7-14 Cotton Dust			
Toxaphene.....	14.00		Passed
DDT.....	7.00		
Theoretical chlorine.....	12.88	13.22	
Maxwell Insecticide Company, Inc.			
Maxwell Toxaphene-DDT Dust			
Toxaphene.....	14.00		Passed
DDT.....	7.00		
Theoretical chlorine.....	12.88	13.35	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Maxwell Toxaphene-DDT Emulsion 4-2			
Toxaphene.....	40.00		Passed
DDT.....	20.00		
Theoretical chlorine.....	36.80	37.57	
Toxaphene.....	40.00		Passed
DDT.....	20.00		
Theoretical chlorine.....	36.80	38.35	
Toxaphene.....	40.00		Passed
DDT.....	20.00		
Theoretical chlorine.....	36.80	36.88	
Toxaphene.....	40.00		Passed
DDT.....	20.00		
Theoretical chlorine.....	36.80	35.21	
Toxaphene.....	40.00		Passed
DDT.....	20.00		
Theoretical chlorine.....	36.80	37.49	
Meherrin Agricultural and Chemical Co.			
Red Kay DDT-Toxaphene 7-14 Dust			
Toxaphene.....	14.00		Passed
DDT.....	7.00		
Theoretical chlorine.....	12.88	12.50	
Molony Fertilizer Co.			
Lightning Brand 14 % Toxaphene 7 % DDT			
Toxaphene.....	14.00		Not Registered
DDT.....	7.00		
Theoretical chlorine.....	12.88	13.04	
Olin Mathieson Chemical Corp.			
Mathieson Toxaphene 14-DDT 7 Dust			
Toxaphene.....	14.00		Passed
DDT.....	7.00		
Theoretical chlorine.....	12.88	13.75	
Mathieson Toxaphene-DDT 4-2 Emulsifiable			
Toxaphene.....	39.50		Passed
DDT.....	19.70		
Theoretical chlorine.....	36.32	36.77	
W. R. Peele Company, Inc.			
Pelco 14-7 Toxaphene DDT Dust			
Toxaphene.....	14.00		Passed
DDT.....	7.00		
Theoretical chlorine.....	12.88	12.59	
Toxaphene.....	14.00		Passed
DDT.....	7.00		
Theoretical chlorine.....	12.88	12.68	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Pelco Toxaphene-DDT Emulsion Concentrate			
Toxaphene.....	40.00		Passed
DDT.....	20.00		
Theoretical chlorine.....	36.80	36.50	
Planters Chemical Corp.			
Planters Toxaphene-DDT Cotton Dust			
Toxaphene.....	14.00		Passed
DDT.....	7.00		
Theoretical chlorine.....	12.88	13.04	
Planters Toxaphene-DDT Emulsion Concentrate			
Toxaphene.....	40.00		Passed
DDT.....	20.00		
Theoretical chlorine.....	36.80	37.07	
Toxaphene.....	40.00		Passed
DDT.....	20.00		
Theoretical chlorine.....	36.80	36.90	
Toxaphene.....	40.00		Passed
DDT.....	20.00		
Theoretical chlorine.....	36.80	36.44	
Royster Chemical Co.			
Cotton "714" Dust			
Toxaphene.....	14.00		Passed
DDT.....	7.00		
Theoretical chlorine.....	12.88	12.86	
Smith-Douglass Company, Inc.			
Smith-Douglass Toxaphene-DDT Cotton Dust			
Toxaphene.....	14.00		Passed
DDT.....	7.00		
Theoretical chlorine.....	12.88	12.88	
Southern Agricultural Chemicals, Inc.			
Royal Brand Toxaphene 14-DDT 7 Dust			
Toxaphene.....	14.00		Passed
DDT.....	7.00		
Theoretical chlorine.....	12.88	14.28	
Royal Brand Toxaphene-DDT 4-2 Emulsifiable			
Toxaphene.....	39.50		Passed
DDT.....	19.70		
Theoretical chlorine.....	36.32	37.46	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Swift and Co.			
Agricultural Chemical Div.			
Gold Bear VD 14-7D			
Toxaphene.....	14.00		Passed
DDT.....	7.00		
Theoretical chlorine.....	12.88	12.86	
Taylor Chemical Co.			
Superkill 14 % Toxaphene-7 % DDT Dust			
Toxaphene.....	14.00		Passed
DDT.....	7.00		
Theoretical chlorine.....	12.88	13.40	
Superkill 4:2 Toxaphene-DDT			
Toxaphene.....	40.00		Passed
DDT.....	20.00		
Theoretical chlorine.....	36.80	36.01	
United Cooperatives, Inc.			
(Registered by Farmers Cooperative Exchange, Inc.)			
Unico "42" Cotton Spray			
Toxaphene.....	38.70		Passed
DDT.....	19.30		
Theoretical chlorine.....	35.68	36.32	
Woolfolk Chemical Works, Ltd.			
Security Brand Toxaphene-DDT 20-10 Dust			
Toxaphene.....	20.00		Passed
DDT.....	10.00		
Theoretical chlorine.....	18.40	19.75	
TOXAPHENE-DDT-METHYL PARATHION			
Carolina Chemical Corp.			
4-2-.5 Super Cotton Spray			
Toxaphene.....	40.00		Deficient
DDT.....	20.00		
Methyl parathion.....	5.00	4.18	
Theoretical chlorine.....	36.80	29.86	
Carter Insecticide and Chemical Company, Inc.			
Carolina Brand P-D-T Cotton Poison			
Toxaphene.....	40.00		Passed
DDT.....	20.00		
Methyl parathion.....	5.00	5.34	
Theoretical chlorine.....	36.80	36.02	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Daly-Herring Co.			
Tri-Tox Cotton Spray Emulsifiable Concentrate			
Toxaphene.....	38.00		Passed
DDT.....	19.00		
Methyl parathion.....	0.48	0.52	
Theoretical chlorine.....	34.96	35.03	
Niagara Chemical Div. Food Machinery and Chemical Corp.			
Niagara Nynamite Dust			
Toxaphene.....	10.00		Passed
DDT.....	9.00		
Methyl parathion.....	1.20	1.20	
Theoretical chlorine.....	11.20	11.47	
W. R. Peele Company, Inc.			
Pelco 2-4-5 Super Cotton Spray			
Toxaphene.....	40.00		Passed
DDT.....	20.00		
Methyl parathion.....	5.00	4.90	
Theoretical chlorine.....	36.80	35.50	
Toxaphene.....	40.00		Passed
DDT.....	20.00		
Methyl parathion.....	5.00	4.90	
Theoretical chlorine.....	36.80	35.04	
Toxaphene.....	40.00		Passed
DDT.....	20.00		
Methyl parathion.....	5.00	4.76	
Theoretical chlorine.....	36.80	36.02	
Toxaphene.....	40.00		Passed
DDT.....	20.00		
Methyl parathion.....	5.00	4.98	
Theoretical chlorine.....	36.80	36.04	
Swift and Co. Agricultural Chemical Div.			
Gold Bear Super Guard 215			
Toxaphene.....	10.00		Passed
DDT.....	5.00		
Methyl parathion.....	2.50	2.38	
Theoretical chlorine.....	8.20	9.31	
United Cooperatives, Inc. (Registered by Farmers Cooperative Exchange, Inc.)			
Unico Cotton Bug Blaster			
Toxaphene.....	37.30		Passed
DDT.....	18.70		
Methyl parathion.....	6.80	7.41	
Theoretical chlorine.....	34.34	36.02	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Unico Cotton Bug Blaster (Continued)			
Toxaphene.....	37.30		Passed
DDT.....	18.70		
Methyl parathion.....	6.80	7.76	
Theoretical chlorine.....	34.34	36.26	
Toxaphene.....	37.30		Passed
DDT.....	18.70		
Methyl parathion.....	6.80	6.88	
Theoretical chlorine.....	34.34	35.36	

Woolfolk Chemical Works, Ltd.

Security Brand 3-Way Cotton Spray 4-2-½

Toxaphene.....	38.60		Passed
DDT.....	19.30		
Methyl parathion.....	4.80	4.58	
Theoretical chlorine.....	35.51	35.92	

TOXAPHENE-DDT-PARATHION**Farmers Cooperative Exchange, Inc.**

FCX Ten Five One Dust

Toxaphene.....	10.00		Passed
DDT.....	5.00		
Parathion.....	1.00	0.99	
Theoretical chlorine.....	9.20	9.59	

W. R. Peele Company, Inc.

Pelco 14-7-1 Toxaphene-DDT-Parathion Dust

Toxaphene.....	14.00		Passed
DDT.....	7.00		
Parathion.....	1.00	1.08	
Theoretical chlorine.....	12.88	13.04	
Toxaphene.....	14.00		Passed
DDT.....	7.00		
Parathion.....	1.00	1.06	
Theoretical chlorine.....	12.88	12.86	

TOXAPHENE-MALATHION**Agricultural Specialties****Starbar Div.**

(Now: Thuron Industries, Inc.)

Starbar Lintox-M Livestock Spray Emulsifiable Concentrate

Toxaphene.....	43.00	42.27	Passed
Malathion.....	4.30	4.54	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
TOXAPHENE-PARATHION			
California Chemical Company-Ortho Div.			
Ortho Parathion-Toxaphene 2-10 Dust			
Toxaphene.....	10.00	9.85	Deficient
Parathion.....	2.00	1.89	
Toxaphene.....	10.00	9.86	Deficient
Parathion.....	2.00	1.85	
Mike, Inc.			
101 Brand Pre-Heading Cabbage Dust with Toxaphene			
Toxaphene.....	10.00	10.00	Passed
Parathion.....	1.50	1.64	
Toxaphene.....	10.00	10.24	Passed
Parathion.....	1.50	1.76	
Southern Agricultural Insecticides, Inc.			
SA-50 Brand Pre-Heading Cabbage Dust with Toxaphene			
Toxaphene.....	10.00	10.71	Passed
Parathion.....	1.50	1.65	
Toxaphene.....	10.00	10.57	Passed
Parathion.....	1.50	1.76	
Toxaphene.....	10.00	10.50	Passed
Parathion.....	1.50	1.72	
Toxaphene.....	10.00	10.43	Passed
Parathion.....	1.50	1.76	
Toxaphene.....	10.00	11.14	Passed
Parathion.....	1.50	1.78	
Toxaphene.....	10.00	10.72	Passed
Parathion.....	1.50	1.72	
Toxaphene.....	10.00	10.86	Passed
Parathion.....	1.50	1.69	
Toxaphene.....	10.00	11.06	Passed
Parathion.....	1.59	1.68	
Toxaphene.....	10.00	10.29	Passed
Parathion.....	1.50	1.66	
Toxaphene.....	10.00	10.43	Passed
Parathion.....	1.50	1.63	
Toxaphene.....	10.00	10.57	Passed
Parathion.....	1.50	1.60	
Toxaphene.....	10.00	10.99	Passed
Parathion.....	1.50	1.82	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
SA-50 Brand Pre-Head Dust 2-20			
Toxaphene.....	20.00	20.73	Passed
Parathion.....	2.00	2.38	
Toxaphene.....	20.00	20.13	Passed
Parathion.....	2.00	2.22	
Toxaphene.....	20.00	20.57	Passed
Parathion.....	2.00	2.10	
Toxaphene.....	20.00	20.86	Passed
Parathion.....	2.00	2.34	
Toxaphene.....	20.00	21.13	Passed
Parathion.....	2.00	2.21	
Toxaphene.....	20.00	21.13	Passed
Parathion.....	2.00	2.21	
TRITHION			
Stauffer Chemical Co.			
Stauffer Trithion 4E Emulsion Liquid			
Trithion.....	45.80	47.90	Passed
Woolfolk Chemical Works, Ltd.			
Security Brand 2% Trithion Dust			
Trithion.....	2.00	2.11	Passed
Security Brand Trithion E.C.-4			
Trithion.....	45.90	48.56	Passed
WARFARIN			
Atla Chemical Co.			
Atla Anti-Rat and Mouse Killer			
Warfarin.....	0.025	0.030	Passed
Barker, Moore and Mein Company, Inc.			
Barker's Bar-Rat Warfarin Pellets			
Warfarin.....	0.025	0.027	Passed
Colonial Products, Inc.			
Colonial-42			
Warfarin.....	0.025	0.029	Passed
do.....	0.025	0.029	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
The d-Con Company, Inc.			
d-Con Mouse Prufe			
Warfarin.....	0.054	0.062	Passed
Douglas Chemical Co.			
Douglas Rat-Killer			
Warfarin.....	0.025	0.029	Not Registered
Dun Win Company and Goulds Dell Products			
Flavorized Rat-Kakes			
Warfarin.....	0.025	0.031	Passed
Hess and Clark Division of Richardson-Merrell, Inc.			
Warfarat Pellets			
Warfarin.....	0.025	0.031	Passed
Hopkins Agricultural Chemical Co.			
Hopkins Prolin Redi-Mix Rat and Mouse Killer			
Warfarin.....	0.025	0.032	Passed
Dr. LeGear, Inc.			
Dr. LeGear's Warfarin Mouse Killer			
Warfarin.....	0.050	0.047	Passed
do.....	0.050	0.052	Passed
MISCELLANEOUS INORGANIC			
Chipman Chemical Company, Inc.			
Atlacide Chlorate Type Weed Killer			
Sodium chlorate.....	58.00	59.58	Passed
Pearson and Co.			
Pearson's Rat Poison			
Zinc phosphide.....	2.00	2.33	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
MISCELLANEOUS ORGANIC			
Agricultural Specialties			
Starbar Div.			
(Now: Thuron Industries, Inc.)			
Starbar Simax Dairy Livestock Spray with Ciodrin			
Ciodrin.....	14.40	16.07	Passed
Allied Drug Products Co.			
Allied Brand 20% Antu Brown Rat Poison			
Antu.....	20.00	20.08	Not Registered
Rhodine Rat Poison			
Squill.....	.....	.....	Misbranded Not Registered
California Chemical Company-Ortho Div.			
Ortho Fly Killer D			
Dibrom.....	41.00	42.34	Passed
Cape Fear Chemicals, Inc.			
Tiger Brand 10% Dithane Dust			
Zineb.....	6.50	6.20	Passed
Chemagro Corp.			
Guthion M-E Spray Concentrate			
Ethyl guthion.....	11.10		Passed
Guthion.....	11.10		
Theoretical phosphorus.....	2.11	2.52	
Guthion Liquid Concentrate Crop Insecticide			
Guthion.....	22.20	25.07	Passed
S. C. Johnson and Son, Inc.			
Raid Moth Proofer			
Perthane.....	5.00	4.82	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Ralston Purina Co.			
Purina Disinfectant			
Lauryl dimethyl 3,4 dichlorobenzyl ammonium chloride.....	2.70		Passed
Myristyl dimethyl 3,4 dichlorobenzyl ammonium chloride.....	1.62		
Palmityl dimethyl 3,4 dichlorobenzyl ammonium chloride.....	0.92		
Stearyl dimethyl 3,4 dichlorobenzyl ammonium chloride.....	0.16		
Theoretical chlorine.....	1.36	1.40	
Purina Baytex Spray Concentrate			
Baytex.....	46.10	53.94	Passed
Rat Lunches Co.			
Death to Moles			
Strychine alkaloid.....	0.50	0.62	Passed
Southern Agricultural Insecticides, Inc.			
SA-50 Brand Manzate Dust			
Maneb.....	5.60	4.96	Deficient
United States Rubber Co.			
MH-30T			
Diethanolamine salt of 6-hydroxy- 3-(2H) pyridazinone.....	58.00	57.20	Passed
Whitmoyer Laboratories, Inc.			
Whitmoyer Hydral			
Cresylic acid.....	38.73	37.28	Passed
Woolfolk Chemical Works, Ltd.			
Security Brand 2 ½ % Methyl Parathion Dust			
Methyl parathion.....	2.50	2.26	Deficient

